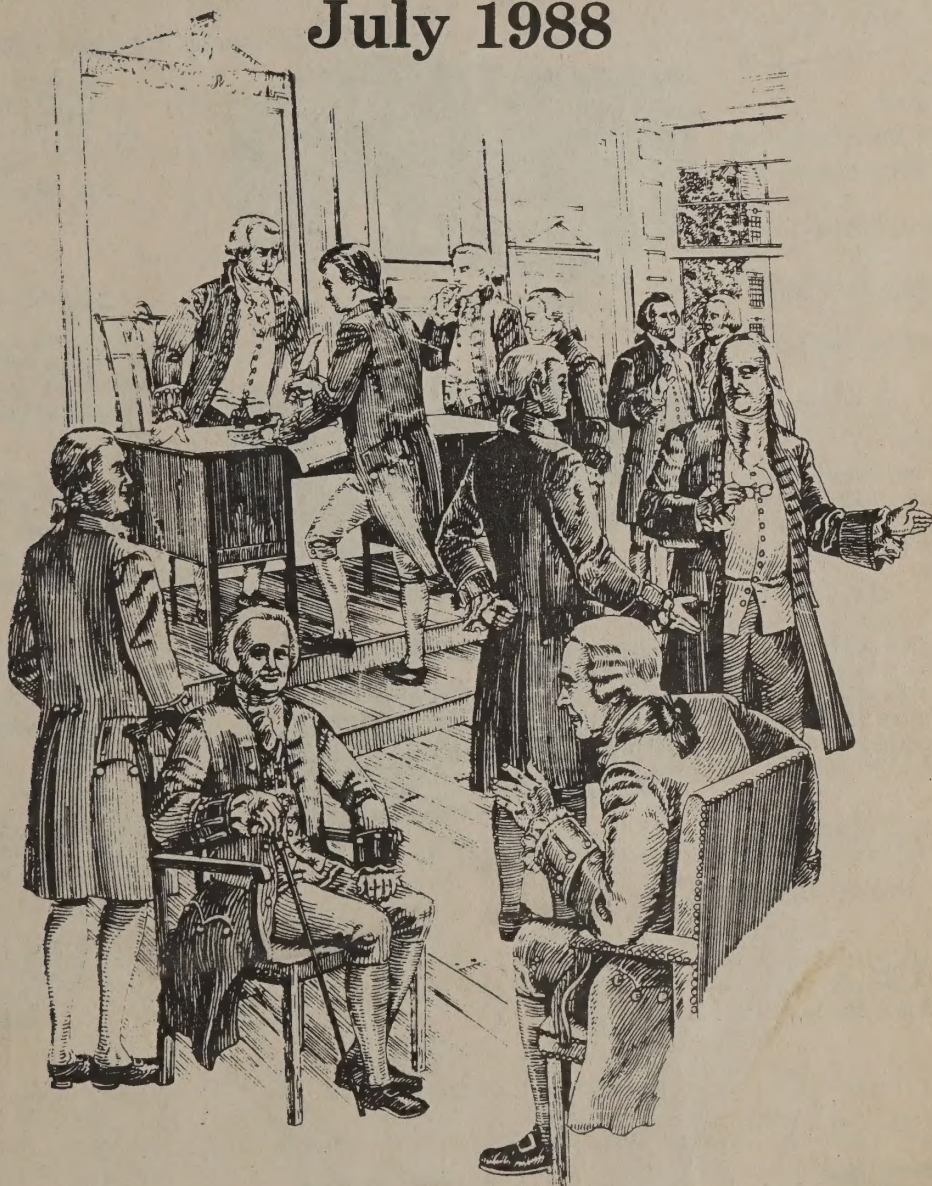


# AUDIO HALL

FOUNDATION FOR  
EAR  
AMATEUR RADIO

July 1988



Official Journal of the Foundation for Amateur Radio

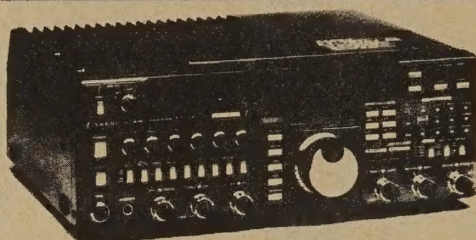
\$1.00





# EGE Has What Every Ham Wants-

- Factory Authorized Sales & Service for All Major Manufacturers
- Discount Prices
- Knowledgeable Staff
- Full Service Department



**YAESU**

## HARDWARE & SOFTWARE

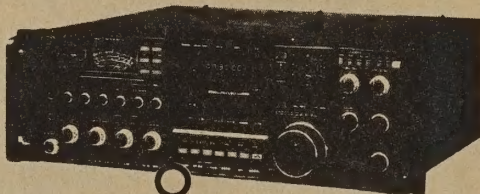
Packet Systems.  
Hal, MFJ, Kantronics for RTTY/Morse.

## AMPLIFIERS

Ameritron, Amp Supply, Mirage, Ten-Tec, Daiwa, Vocom, Triplite, RF Concepts, TE Systems, Alinco, Tokyo Hy-Power, Kenwood.

## RADIOS

Kenwood, Icom, Yaesu, Alinco, Ten-Tec, Santec, KDK — HF, VHF, UHF; handhelds, base stations, mobiles; transceivers and receivers.



**ICOM**

## ACCESSORIES

Astron, MFJ, Daiwa, B&W, Saxton, Tokyo Hy-Power, Cablewave, Amphenol and more.

## ANTENNAS

Cushcraft, KLM, Mosley, Hustler, Hy-Gain, Antenna Specialists, Larsen, VoCom, Butternut, for your car, roof, attic, or tower.



**KENWOOD**

## TEST EQUIPMENT

Welz, Daiwa, Tokyo Hy-Power, MFJ, Beckman, Coaxial Dynamics.

## TOWERS

Unarco-Rohn, Hy-Gain, Tri-Ex.

## SCANNERS / CBs

Regency, Bearcat, Cobra, Uniden.

## ROTATORS

Hy-Gain, Alliance, Yaesu.

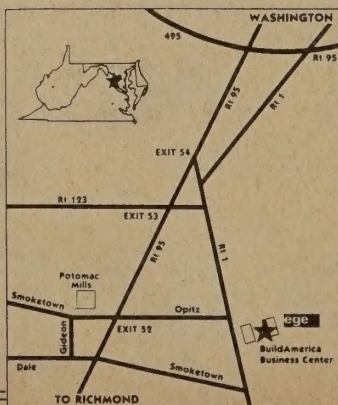
## HEATHKIT

Amateur radios and accessories

**ege inc**

14803 Build America Drive, Building B, Woodbridge, Virginia 22191  
Customer Service: (703) 643-1063; Service Department: 494-8750

**Orders & Quotes Toll Free: 800-444-4799**



Send \$1 for our comprehensive 1988 Buyer's Guide-Catalog.

Store Hours:  
M-F: 10 am-6 pm  
Sat: 10 am-4 pm



# AUTO-CALL

Official Journal of the Foundation for Amateur Radio

## FOUNDATION OFFICERS

Foundation President..... Robert Moore - N3CKD  
(301) 776-3571  
Executive Vice President..... Nancy Draheim - NK4U  
(703) 691-0078  
Admin. Vice President..... Henry Miller - W3BWN  
(301) 474-7376  
Vice President..... Marc Pressman - N4DR  
(301) 460-5108  
Vice President..... Bob Milligan - KI4MB  
(703) 534-1319  
Vice President..... Tony Young - WA3YLO  
(301) 262-1917  
Treasurer..... Ed Morrison - W3RY  
(301) 966-4802  
Recording Secretary..... Mary Morris - KB4JKM  
(703) 820-3044  
Corresponding Secretary..... Irene Akers - W3RXJ  
(301) 423-7138

## AUTO-CALL MAGAZINE STAFF

Editor..... Ethel Smith - K4LMB  
(703) 536-8469

Circulation Manager..... John Swafford - W4HU  
(703) 536-9537

Deadline for copy is the 8th of the month. All contributions are welcomed, but the editor reserves the right to edit or reject any portions of any copy. Permission is granted for copying from AUTO-CALL provided credit is given.

AUTO-CALL is published monthly as the official journal of the Foundation for Amateur Radio. Comments made by columnists do not necessarily reflect the opinions of the Foundation. No effort is made to investigate advertisers therefore no warranty can be implied.

AUTO-CALL has paid subscriptions of well over 1,200 and a total circulation of about 1,600. Copies are sold at local stores and a number of Swap and Complimentary copies are mailed. The magazine is entered as third class non-profit matter at the post office at Arlington, Virginia.

Subscription rates are \$6 a year.  
Subscriptions received after the 15th of the month will be started with the following month's issue.

AUTO-CALL MAGAZINE  
P.O. BOX 7612  
FALLS CHURCH, VA 22046-1452

## MEMBER CLUBS

Alexandria Radio Club  
Amateur Radio Research and Development Corp.  
Anne Arundel Radio Club  
Antietam Radio Association, Inc.  
Arlington Amateur Radio Club  
Baltimore Amateur Radio Club  
Baltimore Radio Amateur Television Society  
Bowie Amateur Radio Club  
Capital City Amateur Radio Society  
Capitol Hill Amateur Radio Society  
Chaverim of the Greater Washington Area, Inc.  
Columbia Amateur Radio Association  
Department of State Amateur Radio Club  
Frederick Amateur Radio Club  
Friendship Amateur Radio Club  
Goddard Amateur Radio Club  
Green Mountain Repeater Association  
Johns Hopkins University Applied Physics  
Laboratory Amateur Radio Club  
MADRAS  
Laurel Amateur Radio Club  
Maryland Emergency Phone Net  
Maryland FM Association  
Maryland Mobileers Amateur Radio Club  
Metropolitan Communications Network Radio Club  
Metrovision Amateur TV Club  
Montgomery Amateur Radio Club  
Mount Vernon Amateur Radio Club  
National Capital DX Association  
Naval Research Laboratory Radio Club  
Northern Virginia FM Association  
Northern Virginia Radio Club  
Ole Virginia Hams Amateur Radio Club  
Patuxent Amateur Radio Communications Society  
Pentagon Amateur Radio Club  
Potomac Area VHF Society  
Potomac Valley Radio Club  
Prince George's Wireless Association, Inc.  
Quarter Century Wireless Association, Inc.  
Baltimore Chapter  
Vic Clark Chapter  
Washington Chapter  
Radio Amateur Satellite Corporation  
Rock Creek Amateur Radio Association  
Shenandoah Valley Amateur Radio Club  
Southern Maryland Amateur Radio Club  
Sterling Park Amateur Radio Club  
St. Mary's County Amateur Radio Association  
Tri-County Amateur Radio Club  
T-MARC, The Middle Atlantic FM & Repeater  
Council  
Vienna Wireless Society  
Washington Adventist Amateur Radio Association  
Washington Area Young Ladies' Amateur Radio Club  
Washington Radio Club  
Woodbridge Wireless, Inc.



## EDITOR'S Editorial

If this issue of the Auto-Call feels pretty thick and heavy, it is!

We ended up with so much fine input for this month's issue that we couldn't cram it all into the regular 48 pages. We filled up 56! Count them!

Our regular columnists have pages chock-full of interesting material. W3SOG sent in a Guest Editorial. Anne Arundel ARC sent a Special Recognition article on Royal Mumford - W3CU, and I snuck in a tribute to our Grand Dame of Amateur Radio - Liz Zandonini - W3CDQ. KA3MKC gave a progress report on the FAR Speaker's Bureau and N4MM gave us a nice review on the Roanoke Division LPM. We have excellent reports from fourteen clubs this month. Our sincere thanks to all of those who contributed.

But like antenna heights, the number of articles we get is never high enough! We would like to hear from ALL the FAR clubs - at least once in a while. We would like to see more area clubs join the Foundation. We would like to see more people subscribing to Auto-Call.

Auto-Call is a good little magazine. I like WA3YLO's comment in last month's Editorial: "Be a 'Know it all - Get Auto-Call.'" And he has a point. If you read Auto-Call you will keep pretty well up to date on practically everything that is going on in Amateur Radio. There is a wealth of information in every issue.

I hope we will continue to have enough material for a 56 page issue every month. But those extra pages cost extra money. If we are going to keep getting bigger and better, we are going to have to have more subscribers and more Display advertisers to pay the bills.

This means we need your help in promoting Auto-Call. Talk it up to your friends and to prospective advertisers. It is a real bargain.

Ethel - K4LMB

## INDEX

### COLUMNS

ARRL REPORT	9
FCC HIGHLIGHTS	5
PUBLIC SERVICE REPORT	13
TRAINING	23
VOLUNTEER EXAMINER COOP.	21

### SPECIAL FEATURES

Coming Events	29
Congratulations to:	24
Guest Editorial - "Priorities"	25
Recognitions	31
Silent Keys	27
Speaker's Bureau	27

### CLUB REPORTS

Anne Arundel Radio Club	37
Department of State ARC	45
Frederick Amateur Radio Club	41
Laurel Amateur Radio Club	43
MADRAS - Maryland Apple Dumplings	42
Maryland Mobileers ARC	35
Metropolitan Communications Net	36
Metrovision ATV Club	34
National Capital DX Assn.	33
Quarter Century Wireless Assn.	47
Rock Creek Amateur Radio Assn.	39
Southern Maryland ARC	38
Vienna Wireless Society	44
Washington Area YL ARC	42
Woodbridge Wireless, Inc.	40

### COMING EVENTS

West VA State Conv. - July 2	29
BRATS Maryland Hamfest- July 31	28
Winchester Hamfest - Aug. 7	20
Gaithersburg Hamfest - Sept 11	19

### ADVERTISERS

EEB	8
EGE	2
G & G	50
Maryland Radio	16
Gordon West's Radio School	26
RF Connection	24
Virginia Micro	39
Serio & Company CPA	53
Auto-Call Gift Certificate	46



# FCC Highlights

Bill Grenfell, W4GF

The FCC proposed rewrite of the Amateur Radio Service rules, which was reported in last months Highlights, is too long to reproduce here or in other Amateur radio publications in its entirety. The government print occupies 37 pages! However, "If you have any special concerns regarding the FCC rules, or if you simply want to be well informed on a matter of great importance to Amateur Radio, you should obtain your own copy of the NPRM. "A large self-addressed envelope with 85 cents postage, sent to ARRL HQ and marked 'Docket 88-139,' will speed a copy back to you." (ARRL Letter, 05/13/88) The ARRL address is: 225 Main St., Newington, CT 06111.

In response to a petition by the ARRL, FCC has amended rule section 97.313 to require foreign amateur operators using reciprocal permits to place their US prefix first, followed by their call sign, while operating in the US. "For example, 'W4/DL6TJ' instead of 'DL6TJ/W4'." Several other countries have already implemented the procedure. (ARRL Letter, 05/23/88; Westlink Report, 05/27/88).

"Eleven Hams in Puerto Rico face the possible revocation of their licenses because of FCC charges that they were involved in testing fraud. "On May 3, the government issued 'Show Cause, Suspension and Designation' orders in which it names several volunteer examiners as the nucleus of a group which assisted family members, friends and acquaintances to fraudulently obtain ham radio licenses. "Also charged with obtaining licenses by fraudulent means are several candidates allegedly tested by the suspect VEs." The amateur licenses of each of those named was to be automatically suspended on May 28, unless a written request for a hearing on the charges was filed by one of the accused prior to then. The proceedings come after a year long investigation by FCC. "The FCC noted that it became suspicious of the possibility of license

fraud when it saw a huge upward spiral in the census of hams residing in Puerto Rico. "At the time, the average national growth of amateur operators was about 3.5% while in Puerto Rico it had exceeded 50 %."... "Additional revocation proceedings are expected."... "...in addition to losing their amateur licenses, those involved in the license fraud scam could also face criminal prosecution." (Westlink Report, 05/27/88; W5YI Report, 05/15/88).

The Seattle, Washington FCC office and the State Section of the ARRL have entered into a formal agreement with respect to the use of volunteers to relieve the FCC workload, the main function of the Amateur Auxiliary Group being to resolve amateur radio interference problems. "In addition, the Seattle FCC office will refer other amateur oriented inquiries to the Auxiliary for response." (Westlink Report, 05/07/88).

FCC's former Special Services Division Chief, Ray Kowalski left FCC last December to join a Washington law firm. However, before he left, recognition was given by FCC to two overlapping 220 Mhz repeater coordination organizations and their cooperation was called for. However it has obviously failed since one body has filed suit against the other. Even though he was no longer with FCC, Ray was on the program of the Dayton Hamvention in April. He spoke about amateur volunteerism, such as repeater coordination, as being "Ham radio's greatest strength (and) also its greatest weakness..." "Sooner or later a repeater coordinator is going to have to tell somebody no [you can't have a frequency], and when you do you are going to get sued..." "I think that lawsuits are completely out of place in amateur radio." "However, it is my personal view that lawsuits are the logical and natural result of the posture that the FCC has placed ham radio in today. (Westlink Report, 05/13/88, 05/27/88).



## FCC HIGHLIGHTS - Continued

"The ARRL has made an offer to the FCC to solve the nationwide repeater coordination crisis through a one time League-sponsored national repeater coordination referendum, one that would let repeater owners in various locations choose whom they want to coordinate them." It was made by ARRL Hudson Division Director Mendelson, WA2DHF, at the FCC Forum at the 1988 Dayton Hamvention. FCC Personal Radio Branch John Johnston was present and appeared to have no objection to the proposal. It now must be brought before the ARRL Board of Directors for approval. (Westlink Report, 05/13/88).

When a River Edge, New Jersey amateur was denied a five foot variance request to the town's 35 foot maximum tower height limit, he filed a complaint in district court against the city officials claiming an invalid use of the city's police powers and constitutional violations. The defendants claimed that the 1985 FCC Memorandum Opinion and Order called PRB-1 was not applicable in this case because "the FCC specifically did not preempt local regulations such as those at issue in this case." Finally an appeals court opinion found that PRB-1 did apply, the township agreed to recognize the validity of PRB-1 and granted WA2INW the variance. "This is the third published case finding in which the validity of PRB-1 has been upheld by a federal court." (Westlink Report, 05/13/88).

Calling the United Parcel Service proposal in Docket 87-14 to allocate 220-222 MHz to narrow band land mobile users "seriously flawed," the Department of Defense (DoD) has filed comments with the National Communications System (NCS) joining, strongly supporting Amateur Radio. This was in response to the late filed UPS comments in the Docket. DoD/NCS noted that the amateur community and the radiolocation operations of DoD have successfully shared the 220-222 MHz segment for many years and the UPS proposal would "preclude the

shared use of these frequencies by radiolocation, forcing the two users to attempt to find other suitable frequencies." (ARRL Letter, 05/23/88; FCC HIGHLIGHTS, 05/07/88; W5YI Report, 05/15/88).

The FCC has agreed to "withdraw without prejudice to the filing of further petitions on the subject" the ARRL petition to modify Sections 97.31 and 97.515 of the rules governing appointment of Volunteer Examiners (VEs).

The original petition was filed to prevent VEs whose accreditation had been suspended or revoked by one VEC, from serving as a VE under a different VEC. After discussing the situation with representatives of the FCC, it appears that there are alternative methods of dealing with this problem which will be more easily pursued if a formal petition is not on file. (ARRL Letter, 05/23/88).

"In 1986 Andrew Bodony, K2LE, brought suit in US District Court to overturn denial by the Village of Sands Point, NY, of his application for a building permit for an 86-foot tower, retractable to 23 feet. "...the court found PRB-1 to be a proper exercise of FCC authority and invalidated the village's 25-foot height limitation as it unduly restricted Bodony's antennas. "This case represents the first time a zoning ordinance was declared invalid on the Basis of PRB-1 and it is an important precedent for radio amateurs fighting unreasonable local zoning ordinance[s]." (ARRL Letter, 05/23/88).

TV Answer Inc (TAI) in RM-6196 has requested the reallocation of 500 kHz in the 216-222 MHz band to market an interactive viewer response system, and suggested that 220.5 MHz would be a good candidate for this reallocation since "it was underutilized by amateurs." "The ARRL had filed strong comments and reply comments to the TAI petition, which noted its many defects, including lack of specific technical data. "TAI has now filed reply comments [on] its own petition which contains three attachments



## FCC HIGHLIGHTS - Continued

of new engineering technical data. "Why does ARRL want this data removed? "For the simple reason that the introduction of new data in one's reply comments is forbidden by the Commission. The ARRL, or anyone else, does not have an opportunity to reply to this new information. "This new technical data should have been included in TAI's original petition, or included in its comments. "(Interestingly, TAI did not file comments supporting its own Petition!) (ARRL Letter, 05/23/88).

KC6, the Federated States of Micronesia (FSM), formerly East Caroline Islands, is now a sovereign, self-governing nation in free association with the US. FSM has not yet established procedures for licensing of amateur operators; however, under the Compact of Free Association, the US is authorized to act on behalf of the FSM in certain telecommunications matters. Until FSM issues amateur permits, FCC licenses granted in the US still apply. (ARRL Letter, 05/23/88).

Use of Single Sideband Suppressed Carrier (J3E) emission in the entire 10.10 -10.15 MHz band is requested in a petition filed at FCC by A. J. Sivo, W2FJ. He "...argues that amateurs are not using the 30 meter band to its fullest extent. "He further requests "...in order to achieve full utilization of the 10.1MHz band, that no sub-allocation of the various modes be made." He refers to the 160 meter band as a successfully working precedent for operation in a band where no sub-allocation of the various emission modes has been made. "The FCC...is requesting public comment on the proposal." Comments should refer to RM-6363. (W5YI Report, 05/15/88).

The definition of a frequency coordinator (Section 97.3(aa)) in the FCC rules should be changed to read: "An individual or organization selected in a regional area by owners or trustees of amateur repeaters, remote bases, and auxiliary links, which recommends frequencies and, where necessary, associated operating and technical parameters...", according to a

petition filed at FCC by K. V. Pagel, N6BVU. He "...feels that recognition as a frequency coordinator should come solely from repeater/remote/auxiliary owners or trustees not users. "...users don't care about the coordination process," he argues. (W5YI Report, 05/15/88).

The recent grant of the special call sign GB2UP to the UoSAT DCE ground station by the UK "...allows US AMSAT packeteers to take advantage of the limited third party agreement in effect between the USA and the United Kingdom. "The treaty agreement allows third party traffic to be passed to or from UK stations using call sign prefix "GB", except those with GB3". (W5YI Report, 05/15/88).

"The ARRL/VEC has received notification that the FCC voided the upgrades of 23 amateurs in the New York City area. The session in question was administered by the ARRL/VEC in January, 1986, and has been under investigation by both the FCC and the ARRL/VEC for irregularities. The VEC Liaison Team was discredited in November 1986 for irregularities detected in several sessions that year. "(Liaisons are responsible for test material security while in the possession of the VEC team). "Each individual's license class (if any) reverts to the class that he or she held prior to the test.

"The individuals are still eligible to apply for upgrades. "The action came as a surprise, as there had been no communication concerning this investigation from the FCC in nearly 18 months." (ARRL Letter, 05/13/88).

See page 12 for latest calls issued and End-of-April License Totals.  
Gf

---

WORLD RADIO  
Ad is now being carried in the  
Shack Sales

---



# EEB—AMATEUR RADIO PROFESSIONALS

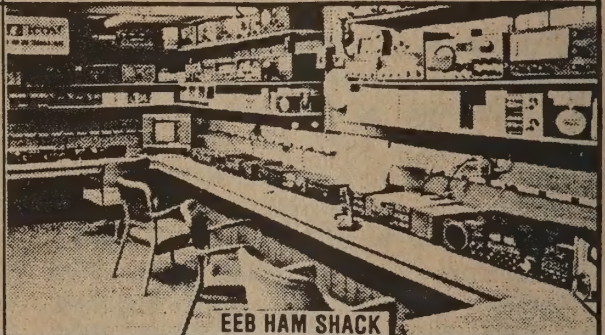
10 miles west of Washington, D.C. Plan a visit your next trip.



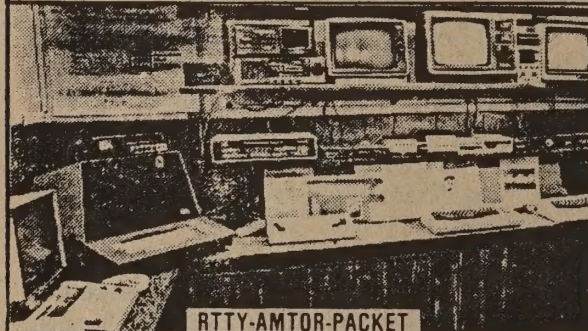
EEB FRONT SHOWROOM

AEA	BARKER & WILLIAMSON
ALINCO	BEARCAT
ALPHA DELTA	BECKMAN
AMP SUPPLY	BELDEN
ANTENNA SPECIALISTS	BENCHER
ARRL	BIRD
ASTRON	BUTTERNUT
B&K DYNASCAN	CUSHCRAFT

DAIWA	HUSTLER
ETO ALPHA	HYGAIN
FLUKE	ICOM
GENERAL ELECTRIC	INFOTECH
HAL	IWATSU
HEIL	KACHINA
HENRY	KANTRONICS
HITACHI	KDK



EEB HAM SHACK



RTTY-AMTOR-PACKET

KENPRO	MIRAGE
KENWOOD	MOSLEY
KLM	WM NYE
LARSEN	PALOMAR
LEADER	PANASONIC
MAXON	PHELPS DODGE
MFJ	PHILLYSTRAN
MINI-PRODUCTS	RAMSEY

REGENCY	TRANSWORLD
ROHN	UNADILLA REYCO
SANGEAN	VAN GORDEN
SANTEC	VIBROPLEX
SONY	WACOM
TET	WELZ
TOKYO HY-POWER	WILSON
TOSHIBA	YAESU



SWL SHOWROOM

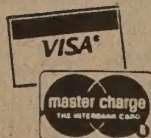
**At EEB we live Amateur Radio. Stop by and compare before you buy.  
At EEB, we give service before, during and after the sale. We take good care of you.**



Electronic Equipment Bank  
516 Mill St., Vienna, VA 22180

**(703) 938-3350**

Just 15 minutes via I-66  
west of downtown D.C.



**ORDER DESK**  
10 AM-5 PM EST M-F  
10 AM-4 PM EST SAT  
Store hours same  
THUR 10-9 PM  
Closed SUN-MON





# American Radio Relay League Report

By John Swafford - W4HU

*This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active radio amateurs. Any League member may subscribe to the ARRL LETTER.*

---

**AMATEUR INTERESTS SUPPORTED BY DOD/NCS.** Calling the UPS proposal "seriously flawed," the Department of Defense (DoD) together with the National Communications Systems (NCS) has filed reply comments strongly supporting Amateur Radio in response to the late filed UPS comments in Docket 87-14. These important comments should greatly aid the amateur community in our fight to retain the threatened bottom two megahertz of the 220 band.

In its comments, DoD/NCS said it was currently conducting "several sensitive research efforts that show the imperative need to continue Radiolocation as a primary service in the 216-25 MHz band." These research efforts involve certain advanced forms of radar. DoD/NCS noted that the amateur community and the radiolocation operations of DoD have successfully shared the 220-222 MHz segment for many years and the UPS proposal would "preclude the shared use of these frequencies by radiolocation, forcing the two users to attempt to find other suitable frequencies."

"...the Amateur Radio Service has a variety of critical operations at 220-220 MHz, including fixed, auxiliary and control links for repeaters, beacons, weak-signal propagation, research and experimentation and, most recently, an increasing number of high-speed data links for amateur packet radio operations. These links must be situated at 220-222 MHz due to the band-width and path lengths required, the high occupancy of the 144-148 MHz band and the likely full utilization of 220-225 MHz by repeaters in major metropolitan areas in the future." DoD/NCS continued in some

detail explaining the unique qualities of the 220 band and why, due mostly to propagation or shared use, the other amateur bands could not reaccommodate the 220-222 MHz amateur users.

DoD/NCS concluded that it needed the 216-225 MHz band for its radiolocation service, and that continuing this allocation is "crucial to the development of an Advanced Tactical Surveillance Radar and other radiolocation systems."

Perry Williams, W1UED, ARRL Washington Area Coordinator reminds us that these reply comments actually represent two agencies: the Department of Defense itself made the point that the military services had a continuing need for radar in the 216-225 MHz band beyond 1990 ending date for such use; did not believe it could share with a private Land Mobile service, but was content to continuing sharing with the Amateur Service. The other agency involved in the paper was the National Communications System (NCS), a consortium of 23 government agencies which use communications services of all types--radios, wirelines, satellites, or fiber optics; in normal times, times of natural disaster or in the event of enemy attack. The NCS is charged with National Security Emergency Preparedness; as such, it is known to amateurs as the operators of Night Tango exercises in the past. It is very interested in amateurs' burgeoning capability for large-scale message handling by packet radio, much of it done in the amateur 220-222 MHz sub-band which is under attack in the Docket (87-14). Thus, the NCS role in the Department of Defense filing is significant, and should be made known to radio amateurs.

## SOLAR CYCLE PEAK MAY BE EARLY.

The peak of the next solar cycle may occur as early as late 1988, and may possibly be the most intense cycle ever measured. According to Dr Patrick McIntosh, Director of Solar Physics



## ARRL REPORT - Continued

Research at NOAA's Space Environment Laboratory in Boulder Colorado, the solar activity level could reach normal maximum by summer if current trends continue. Earlier predictions based on traditional methods suggested that 1992 be the maximum.

Predicting solar activity is risky, and Dr McIntosh cautions that the rapidly increasing levels could flatten out. However, NASA is apparently taking some precautionary action with its low earth orbiting satellites, protecting them from the "drag" that increases during periods of high solar activity.

**US POSTAGE INCREASE AFFECTS MAIL TO CANADA.** Everyone is aware that the US increased its postage rates from 22 cents to 25 cents for First Class mail on April 3. However, what you may not be aware of is that the rates for letters to Canada are no longer the same postage as domestic mail. It now costs 30 cents to send a First-Class letter to Canada from the US, and if you are sending a QSL card, it will now cost you 21 cents if it's bound for North of the border.

The rate for letters and cards sent to Mexico remains the same: 25 cents for letters and 15 cents for postcards.

**ARRL MEMBERSHIP BREAKS RECORDS.** April marked a milestone in League history. Full Membership at the end of April totaled 135,829, the largest in League history: every additional Full Member establishes a new record. The increased membership is attributed to the vast number of volunteers who assist in the field, stable dues rates, which have remained unchanged since 1981, the quality and popularity of League publications, and greater operating efficiency at HQ.

The ARRL has taken on a leadership role on issues such as Amateur Radio growth, and promoting Novice Enhancement, which promoted this growth and didn't hamper already-licensed amateurs. The formula

was productive, as new FCC-issued amateur licenses are up by 12 percent or more in each of the two most recent quarters, compared to the same period last year.

The League has implemented restructured programs providing for greater membership participation and input, making it even more of a "membership based" organization.

**SKITREK UPDATE.** Contrary to our story in the ARRL Letter (No. 8, April 22, 1988) the Canadian Radio Relay League has informed us that they are providing only ONE QSL card for those who work CI8C. There are no cards available, as far as we are aware, for those hearing the UoSAT OSCAR 11 Digitalker.

After fifty days on the polar ice, the team of four Canadian and nine Russian skiers reached the North Pole on April 26. This, the first major objective on the trek, was 1000 kilometers from the start at Cape Arctic on Severnaya Zemlya.

On the last phase of the journey to Cape Columbia, Canadian station CI8C at Resolute Bay assumes responsibility for communications with the team.

Canadian communications coordinator Tom Atkins, VE3CDM, reports that all expedition communications are working extremely well.

**THINK BEFORE YOU BUY "USED" GEAR.** There are potential problems involved in the buying and selling of used radio equipment that hams should remain aware of.

There is a reported case of a ham being arrested for possession of "stolen" equipment after having innocently purchased a piece of "surplus" commercial radio equipment for conversion and use on the amateur bands. Beware of future implications when dealing for that piece



## ARRL REPORT - Continued

of "surplus" equipment--you may face felony charges for possession of stolen property, not to mention the loss of the equipment without any reimbursement to you!

Purchasing your surplus equipment from someone you know, or better yet, from a reputable dealer, is the best way to protect yourself from obtaining equipment of "questionable origin."

**AMATEUR OPERATION FROM KC6.** KC6, the Federated States of Micronesia (FSM), formerly East Caroline Islands, is now a sovereign, self-governing nation in free association with the US. FSM has not yet established procedures for licensing of amateur operators; however the US, under the Compact of Free Association, is authorized to act on behalf of the FSM in certain telecommunications matters. Until FSM issues amateur permits, FCC licenses granted in the US still apply.

**WOHLERS ADDRESS CHANGES.** Effective June 17, the mailing address of the Albert H. Wohlers company, administrator of the ARRL Equipment and Club Liability Insurance programs, will change as follows:

Albert H Wohlers & Co.  
ARRL Insurance Plans  
1440 N. Northeast Highway  
Park Ridge, IL 60068  
Tel 800-323-2106 or 312-803-3100.

**TELEPHONE RFI?** Are you plagued with the problem of your ham rig being heard on nearby telephones? If your answer is "yes" and the phone is made by AT&T, there may be a "fix" available to eliminate the problem.

AT&T Technical Services Division is marketing a modular in-line filter (Z-100 A) for \$17.95 plus tax and shipping. The filter is available for both desk and wall style telephones, and is guaranteed to reduce RFI when used with phones manufactured by AT&T.

The filter may be ordered by phone with a major credit card from: AT&T at 1-800-222-3111.

**DAYTON HAMVENTION '88.** Close to 30,000 amateurs from around the world invaded the Hara Arena April 29-May 1 for the 37th annual Dayton HamVention. This represents about a 3000 to 4000 increase over last year's attendance, and does not include statistics from a new program implemented this year. Special HamVention tickets (about 10,000), in addition to the regular ham tickets, were targeted towards high school students this year as a prototype program. The prizes for these special ticket holders were separate from the regular HamVention prizes, and chosen with the non-amateur in mind (such as publications to assist in obtaining an Amateur Radio license, and receiving equipment).

According to Ed Hillman, N8ALN, HamVention Assistant General Chairman, it appeared that the commercial exhibitors had done well, and by the appearance of the "smiles on the faces" of flea market exhibitors they too were pleased with the attendance. The weather for the entire weekend was spectacular and those in search of the "elusive flea" outside without some "sunscreen" no doubt wished they had brought some!

The HamVention banquet was attended by over 1300 people. Master of ceremonies was Johnny Walker, a veteran broadcaster who is familiar with Amateur Radio, and has produced several shows on the public service aspects of the hobby. Gordon West, WB6NOA, was the guest speaker, and his program utilized a spectacular laser light demonstration to show propagation effects, EME, and Meteor Scatter techniques. DARA Awards were given for Amateur of the Year, Posthumously awarded to Bill Bennett, W7PHO, for his creation of the Western Washington DX Club, and DX Family Hour Net Special Achievement, to Fred Hammond, VE3HC, for his assistance in getting stations from The Peoples



Republic of China on the air, and his antique radio museum; and Technical Achievement, to Lew McCoy, WIICP, for his easy-to-understand construction projects to assist new amateurs in their understanding the technical aspects of the hobby.

At this year's event over 400 commercial exhibitors included many computer companies, adding this growing facet of Amateur Radio to the Dayton HamVention.

All of the major equipment manufacturers had some new "toy" on display, and there was no lack of places to get rid of "green stamps."

Prizes for this year's HamVention were provided by over 130 distributors, with a total value in excess of \$71,000. Topping the list was Kenwood USA Corporation, with donated prized totaling over \$14,000!

As the Dayton Municipal Airport disgorged hams to all compass directions, we wearily await next year's HamVention, bringing more money, some sunscreen, and making certain to make our reservations for April 28-30, 1989.

\*\*\*\*\*

THE LATEST CALLS ISSUED FOR THE STATESIDE, ALASKA AND HAWAII CALL AREAS WERE:  
AS OF 1 MAY 1988

GENERAL/			
EXTRA	ADVANCED	TECH.	NOVICE
NR1C	KC1JH	N1FRJ	KA1RXU
WF2V	KE2GL	N2IDN	KB2FPT
NO3L	KD3HT	N3GEG	KA3TAW
AB4H	KM4AZ	N4SRY	KC4EZD
AA5FO	KG5JR	N5NMB	KB5GCC
AA6IG	KJ6GH	N6SAL	KB6Yaq
WN7I	KF7JK	N7KXS	KB7EVP
WF8A	KE8RH	N8JLV	KB8EQB
NY9R	KE9KJ	N9HKW	KB9ASO
WG0Z	KE0UT	N0JEU	KB0CMY
HAWAII	AH6IY*	NH6PB	WH6BXX
ALASKA	AL7JV*	NL7NH	WL7BRF

\* EXTRA CLASS ALSO ASSIGNED FROM THIS GROUP

END-OF-MONTH LICENSE TOTALS		
CLASS	MAR 1988	APR 1988
EXTRA	44,617	44,819
ADVANCED	98,505	98,403
GENERAL	113,900	113,623
TECHNICIAN	95,256	95,810
NOVICE	82,705	82,780
TOTALS	434,983	435,435

W1AW Renovation Fund Drive

Yes! I Want to Support the W1AW Renovation

☐ Check enclosed for \$

☐ Please charge my gift of \$ to my MC VISA AmEx

Card no. Exp. date

Signature (required for charges)



All gifts will be acknowledged, and all who donate will receive a handsome certificate.

Name Call print exactly as you want it to appear on certificate

Street Address

City State ZIP

☐ I prefer to remain anonymous

Please make your check payable to W1AW Renovation Fund

All contributions are tax deductible to the extent allowable by law, as ARRL is a 501(c)(3) organization.





## PUBLIC SERVICE REPORT

FCC Regulations 97.1: "The rules and regulations in this part are designed to provide an amateur radio service having a **FUNDAMENTAL PURPOSE . . . SERVICE TO THE PUBLIC** as a voluntary noncommercial communications service, particularly with respect to **PROVIDING EMERGENCY COMMUNICATIONS.**"

Jeff Wilkes, W4NFA

### ---HOSPITAL EMERGENCY ---

On May 7, 1988, a local power failure and subsequent telephone failure left the Southern Maryland Hospital Center without either internal or external communications. Hospital officials called the PG County Office of Emergency Preparedness for assistance. Gould KA3DUE, So. PG Co. EC, was quickly contacted by County officials and Gould activated So. PG. Co. ARES to support the County operations at the hospital. George KA3KIF, AEC, quickly established a call-up net on the 147.15 repeater and by 0700 ARES members supplemented by volunteers from the So. Maryland Amateur Radio Club were on the scene.

Message traffic from various locations in the hospital was passed via two meters simplex. Outgoing traffic was passed via two meters simplex to County officials manning cellular telephone equipped Office of Emergency Preparedness vehicles parked just outside the hospital. In coming external communications received via cellular telephones were

similarly relayed to the proper location within the hospital using two meters. The operation continued until about 1400 when full utility services were restored.

Joey N3EQL, Public Service Coordinator for the So. Maryland Amateur Radio Club, was very helpful in arranging for many club members who were to participate in a Boy Scout Jamboree event that same day, to assist in the emergency. Jim WB3KKO is also to be lauded for his smooth and well organized net control operation at the scene. The following ARES members participated: N3EQJ, KA3RMZ, K2CJX, N3FNZ, W3IDL, WB3KKO, KA3KIF, and KA2FWJ. The following club members also assisted: KA3KIQ, KA3IDZ, KA3DNW, KW3X, N3FUZ, KF3T, W3FVD, WB3EBA, and WA3YUV. All of these Amateurs are to be applauded for their spirit of assistance and cooperation.

-reported by N3EQJ AEC

### --- MS 150K BIKE TOUR ---

For the seventh straight year, members of Loudoun Co. ARES, Prince William Co. ARES, and Fairfax Co. ARES (primarily the Vienna Amateur Radio Emergency Corps) cooperated to provide communication services to the National Multiple Sclerosis Society Annual 150K (100 mile) Bike Tour. The event is one of several annual fund raising event of the MS Society which uses the money to provide a variety of services to the more than 2500 local residents who live with MS as

well as continuing research for a cure for this chronic disease of the central nervous system which result in anything from slight blurring of vision to complete paralysis, generally affecting people between 15 and 50 years old. Each biker must obtain at least \$1 per kilometer in pledges from family, friends, neighbors, co-workers, or businesses. Companies and organization often sponsor teams (4 members minimum) to compete for a Corporate Cup. Prizes are awarded



## PUBLIC SERVICE REPORT - Continued

those who raise \$2, \$3, \$5, \$9, or \$13 per km as well as the person who raises the greatest amount. All participants and volunteers received T-shirts, meals, snacks, and overnight accommodations at the High Road Center on Saturday night. The Center is the 75 miles mark for the Tour which started at the Vienna Community Center at 0630 on Saturday May 21 and ended at Harper's Ferry at 1500 on Sunday May 22. Amateur Radio communications was provided to assure the safety of the bikers and volunteer workers.

Planning for the Tour began in November 1987, with letters mailed by the MS Society to all hams who had participated in previous years. Jeff W4NFA was the Communications Coordinator, and Larry KA3BAL assisted by attending the many volunteer meetings held at the MS Society Offices on K Street in D.C. Hams were assigned to each of ten checkpoints Saturday and five checkpoints Sunday. In addition, hams were to man four mobiles which were to be supplied and driven by MS officials and volunteers. Permission was granted by owners and trustees for use of the 146.79- and 147.300+ repeaters.

By the middle of April it was clear that plans would have to be modified to accommodate the numbers of bikers who were registering - more than twice the number of previous years. Large circus tents were arranged to be erected at the High Roads Center for bikers who were not among the first 140 (the maximum number which could be accommodated in the cabins available. The small trucks to be used to transport the bikers personal supplies (sleeping bags, clothes, etc.) were upgraded to two full size moving vans. Two more mobiles were added each day. Buses were reserved to transport bikers from the High Road Center to a nearby school gym to supplement the inadequate shower facilities. Additional supplies were obtained.

By the time the final letters were mailed to the twenty-five hams who had agreed

to support the operation, 535 bikers had registered - nearly 4 times the number of previous years. The months of planning were paying off!

On Friday evening, May 20, Larry KA3BAL and Howard W3CQH drove up to the High Road Center placing Bike Tour directional signs at predetermined intersections along their route. Other MS volunteers placed signs along the sections of the route that Larry and Howard would not be driving. After staking out the Infirmary building as the location of Net Control (the only building with indoor plumbing, a telephone, a refrigerator, and good bunks), they began setting up antennas and rigs. In addition to two meters which would be used for the net, a CB rig with high-gain antenna was installed for communications to nine members of the Gold Wings motor cycle club who would be patrolling between checkpoints both days.

At 0600 Saturday, Jeff W4NFA arrived at the Vienna Community Center to begin coordination with the MS people. He was soon joined by Dave N4JGQ who operated as talk-in and net control from the Community Center from 0630 until 0930 when the Community Center operation was secured.



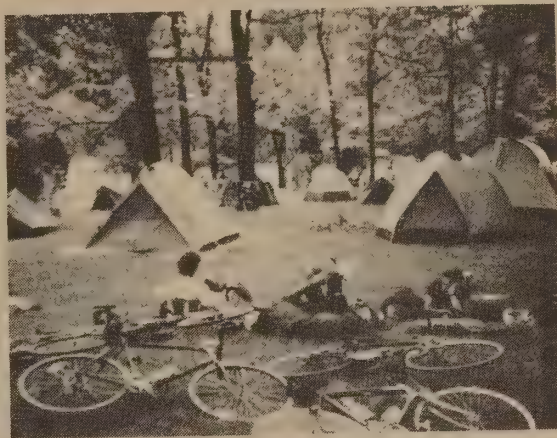
Start Line for 1988 MS 150K  
at Vienna Community Center  
Pictured are Joe - WB4WZZ  
and Dave - N4JGQ



## PUBLIC SERVICE REPORT - Continued

By 0630 the first two checkpoints were manned by Norm KB4VCV and Barney WA4HIM, and all hams were in route to their assignments. By 0900 all six mobiles were manned and in operation. Due to a lack of MS volunteers, Bob KK4BG and Jeff W4NFA drove their own vehicles. The MS Coordinator, Tina Friend, rode with Jeff until she arrived at the High Road Center. Other key people were assigned to the mobiles in order to be available for decision making. Bringing up the rear behind the bikers was the drag vehicle manned by Dick K4LV. He was assigned to stay behind the last biker at all times. When the drag left a checkpoint, the checkpoint was secured. By the time net control was transferred to W3CQH at the High Road Center, the official count was 490 bikers checked through the starting line.

roads through Ashburn and Arcola in Loudoun Co., south across Rt. 50 into Prince William Co.; through Gainesville, west to The Plains in Fauquier Co., and north back into Loudoun Co, through Middleburg, and to the High Roads Center near Mountville.



Part of the Tent City at High Roads Center Saturday night Camp-over. 490 bikers occupied cabins and tents



Net Control Station for 1988 MS 150K Bike Ride at High Roads Center. Howard - W3CQH at the mike

The threat of rain had apparently discouraged many and the ten percent drop out expected was exceeded, but the turnout was still more than three times previous years. At 1130, the net was transferred from the NVFMA 146.79-machine which had served very well, to the 147.300+ machine which would be used for the rest of the operation. The bikers spent the day winding up the WO&D trail to Herndon where they exited onto back

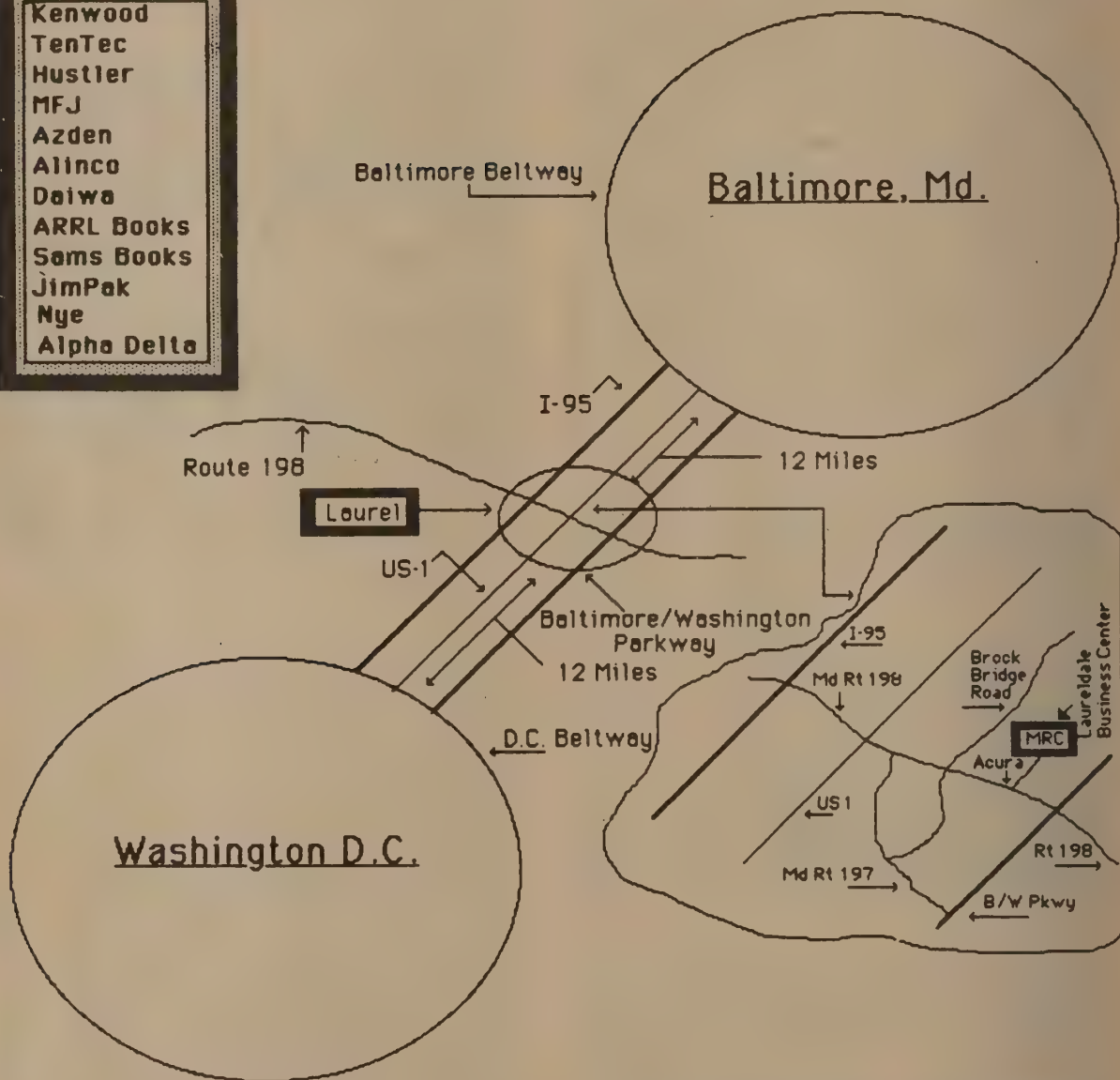
On Sunday morning after a quick 0600 breakfast, the net was once again activated. The first two checkpoints were manned by John N3BAL and Ray WA3DYP. Joe WB4WZZ was net control operator for the day from the High Roads Center. Following the same routine, the bikers traveled west to Airmont, north through Roundhill, north through Mechanicsville, and onto Harper's Ferry when the ride ended in the Bolivar Heights park. After a picnic, the bikers were loaded onto buses and transported back to the Vienna Community Center where their personal items had to be delivered by moving van from the High Road Center. As the last stragglers arrived at Harper's Ferry at 1500, the net was secured.

Communications proved once again to be key to the smooth running of the event. Traffic was so continuously heavy on the net, that next years operation will be planned around two nets. The CB link to the motor cyclists proved to be very useful - the Goldwings continually located



**Maryland Radio Center - Location Strip Map**  
**8576 Laureldale Drive Laurel, Md. 20707**  
**(301)-725-1212**

- Kenwood
  - TenTec
  - Hustler
  - MFJ
  - Azden
  - Alinco
  - Daiwa
  - ARRL Books
  - Sams Books
  - JimPak
  - Nye
  - Alpha Delta



**Yes.. we do have a service shop !**

**Our hours are : Monday - Friday : 10AM - 7PM**  
**Saturday : 9AM - 5PM**  
**Closed Sunday**



## PUBLIC SERVICE REPORT - Continued

bikers needing assistance between checkpoints and were able to notify either the nearest checkpoint or net control for dispatching of a mobile unit to assist. By noon on Saturday, many biker's reached the end of their stamina and had to be picked up and transported. From early afternoon until the end of the day's ride, a continuous stream of loaded mobiles were kept busy rescuing bikers. Two bikers fell and had to be transported to the Leesburg Hospital for checkup-one returned to the ride but the other had to be transported back to Vienna.

Despite the maps and route markers, many bikers got off the route. Even with careful tracking by Amateur Radio, one biker was lost and ended up in Warrenton! She called the emergency phone number at net control and a mobile was dispatched to transport her and her bike to the High Roads Center. Dozens of bikers experienced mechanical problems including many blowouts. The two mobiles provided with tool kits, bicycle tubes, and pumps were kept so busy that another mobile had to be dispatched to Leesburg to secure additional tubes, tires, and other parts. When it was all over, all but one biker finished the ride.

In addition to those already mentioned, the following hams participated: Tom K4FHK, Joe KB4VHK, Harry W4PVA, Steve N4OGR, Bill K3CUU, Bob KK4GB, Harold N3BRM, Dick K4LV, Mitch AA4WV, Chuck WD4HXG, Chris KK4GC, Chuck W4LFO, and Bonnie N4QPB.



Harry - W4PUA operating at Check Point 6 During MS 150K Bike Ride  
Unidentified REACT operator provided Liaison to Goldwing motor cyclists patrols between checkpoint 6 and checkpoints 5 and 7

### --- SKYWARN ALERTS ---

In mid-May, several days of thunderstorms and heavy rains prompted the National Weather Service to activate the regional SKYWARN severe weather spotting system. Several Amateurs from southern PG County ARES as well as members of the So. Maryland ARC acted as net control operators at the Weather Service office in Camp Springs. Among

these were KA3KIF, W3IDL, KA3IDZ, W3FVD, and N4QOS. A number of So. PG Co. ARES and So. Maryland ARC members submitted spotting reports from locations in the region. In addition, dozens of Amateurs throughout the Mid-Atlantic area Radioed weather information.

-reported by N3EQJ AEC

### -- 1988 VIVA VIENNA ---

Sunday May 29, 1988, was sunny and hot. But in spite of the 91 degree humid weather, thousands of people spent the day visiting the booths set up on Church St. and adjoining side streets, and enjoy-

ing the free entertainment provided by civic groups. There was even free Viva Vienna cake available for the asking.

(Continued)



## PUBLIC SERVICE REPORT - Continued

Members of the Vienna Wireless Society, Inc., manned a ham radio demonstration exhibit as they have each year the street festival has been held. This year, the exhibit was of special significance since 1988 is the 25th birthday for the Society.

The exhibit included rigs on 2, 10, and 20 meters. Handouts were provided to visitors and those who indicated interest

in the Amateur Radio service were invited to the next running of the VWS Novice license class.

Art N4JMJ coordinated the exhibit this year and the following VWS members participated: WB9UJS, WA4HIM, W4JQT, AB4CF, W4DZI, KB4YMA, W4MIB, W4NFA, and WI4A. Everyone had an enjoyable time.

### --- NEW PG CO. EC ---

George Dewees-KA3KIF has recently been appointed as So. PG Co. Emergency Coordinator, replacing Gould KA3DUE who had to step down due to health reasons.

Gould has been PG Co. EC and subsequently So. PG Co. EC for more than three years. In spite of some difficulties during his tenure, his accomplishments have placed Amateur Radio in a very favorable spotlight in his jurisdiction. As a result of Gould's efforts, Amateur Radio is officially a key part of

emergency preparedness in Prince George's County. This foundation of commitment from the County will help George start his term on a firm footing. We hope to see Gould continue as an ARES/RACES member, and wish George much success in the future. All So. PG. Co. ARES members are encouraged to take the initiative to contact George to congratulate him on his appointment and to offer his support.

--reported by N3EQJ AEC

See pages 48 - 49

For list of ECS and Traffic Nets

\*\*\*\*\*

## PUBLIC SERVICE CALENDAR

6/20/88: National Capital ARES (NCARES) Council Meeting; 1915 at D.C. Red Cross Chapter House Board Room 2021 E St. NW

6/22 - 6/25/88: Gettysburg Reenactment; Joe WB4WZZ 241-0078

7/4/88: Fairfax City July 4th Parade; Joe W4LBL 273-2188

7/18/88: NCARES Council Meeting; 1915

8/15/88: NCARES Council Meeting; 1915

Material for PUBLIC SERVICE REPORT can be left at W4NFA-1 PBBS on 145.07 or mailed to 9809 Meadow Dale Ct., Vienna, Va. 22180. Deadline for receipt of material is the fifth of the month.

---... ---... ---... ---... ---... ---... ---... ---... ---... ---...





**HOST HOTEL**

Gaithersburg Holiday Inn  
2 Montgomery Village Avenue  
Gaithersburg, Maryland 20879  
301-948-8900  
Call for special hamfest rates

# GAITHERSBURG HAMFEST 1988

**SUNDAY, September 11**  
**Montgomery County Agriculture**  
**Center**

**(FAIRGROUNDS)**  
**Gaithersburg, Maryland**

*For more information and table reservations  
write to*

**GAITHERSBURG 88**  
**FOUNDATION for AMATEUR RADIO**  
**P.O. Box 1068**  
**Laurel, MD 20707**  
**Call 301-776-3571 or 301-725-5137**



# "SHENANDOAH VALLEY AMATEUR RADIO CLUB"

## 38th ANNUAL WINCHESTER HAMFEST SUNDAY, AUGUST 7th, CLARKE COUNTY RURITAN FAIRGROUNDS, BERRYVILLE, VA.

Breakfast, Snack Bar, Ruritan's Famous Chicken & Beef Barbeque!



APPROVED  
HAMFEST



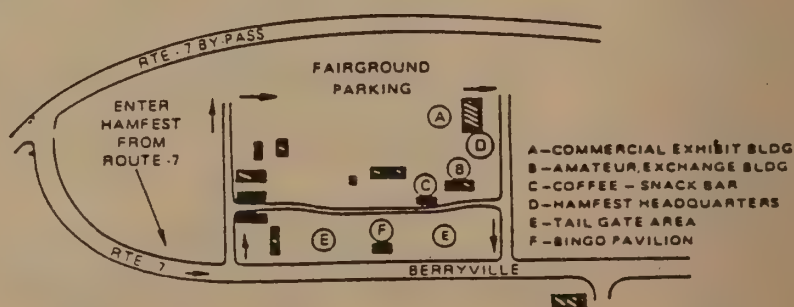
V-E

Exams

Sunday 9AM

Talk in 146.22-82 & 52 Simplex

Ladies' Bingo, Arts and Crafts (Non-Commercial)



Registration \$4.00; XYLS and Children - FREE, Grounds Open 7 AM

Tail-Gaters or Tables Bldg. B (First Come Basis) — \$5.00

SET UP BEGINS 6 AM



FOUNDATION FOR AMATEUR RADIO  
**Volunteer Examiner Cooperative**

Nancy Draheim - NK4U  
3513 Old Post Road, Fairfax, VA 22030  
(703) 691-0078

**SCHEDULE OF EXAMINATIONS**  
**1988**

**IMPORTANT NOTE:** Certificates of successful completion for theory tests are not always accepted. Check with the contact person for the exam you wish to take.

July 9 University of Maryland ARC (College Park, MD) (W5YI VEC) Walk-in  
Contact: Scott Rosenfeld - NF3I (301) 963-4008

Geo Wash U & Dept of State ARCs (Washington DC) (ARRL VEC) Walk-in  
Contact: Derrill Rohlfis - W3WOX (301) 423-0179

Massanutten ARA/Valley ARC (Harrisonburg, VA) (ARRL VEC) NO Walk-ins  
Pre-registration required 3-4 weeks in advance.  
Contact: Wayne Miller - KB4WOM (703) 867-5428

July 16 Chesapeake DX Association (W5YI exam)  
Contact: Bill Verebely - KC4YX (804) 424-4764

Sterling Park ARC (Sterling, VA) (ARRL VEC) Walk-in  
Contact: Ray Burns - WA3DYP (703) 430-1302

July 23 Richmond ARC (Richmond, VA) (ARRL VEC) Walk-in  
Contact: Ron Bolton (804) 798-5191

July 31 BRATS HAMFEST (Howard County Fair Grounds) (Laurel VEC)  
Contact: Jim Kessler, KQ3S (301) 953-1065

Aug. 6 University of Maryland ARC (College Park, MD) (W5YI VEC) Walk-in  
Contact: Scott Rosenfeld - NF3I (301) 963-4008

Hampton Roads Radio Association (W5YI exam)  
Contact: Bill Runyon - N4BDH (804) 587-8611

Seaford, Delaware (Laurel VEC) Walk-in  
Contact: Richard Osborne - KV3D (302) 629-0607

Aug. 7 Shenandoah Valley ARC (Middletown, VA) (ARRL VEC) Limited Walk-in  
Contact: Walt Quitter - NC4B (703) 869-5241

Aug. 13 Frederick ARC (Frederick, MD) (ARRL VEC) Limited Walk-in  
Contact: Rick Ogden (301) 845-2670

Aug. 18 Baltimore ARC (Towsen, MD) (Laurel VEC) Walk-in  
Contact: Ron Derencz (301) 765-2843

(Continued )

This schedule of examinations can be found each month in Auto-Call Magazine.



## VOLUNTEER EXAMINER COOPERATIVE - Continued

- Sept 10 Peninsula Radio Operations Society (Salisbury, MD) (Laurel VEC)  
Pre-registration preferred  
Contact: John Luppert, K3NOQ (301) 749-7444
- Montgomery/Montgomery College/Rock Creek ARC (Germantown, MD)  
(ARRL VEC) Walk-in  
Contact: John Muller, W3QF (301) 654-0178
- Richmond ARC (Richmond, VA) (ARRL VEC) Walk-in  
Contact: Ron Bolton (804) 798-5191
- Sept 18 Baltimore Radio Amateur TV Society (Baltimore, MD) (Laurel VEC)  
Contact: Steve Silberman, K3RMX (301) 578-8527
- Oct. 20 Baltimore ARC (Towsen, MD) (Laurel VEC) Walk-in  
Contact: Ron Derencz (301) 765-2843
- Nov. 5 Shenandoah Valley ARC (Middletown, VA) (ARRL VEC) Limited Walk-in  
Contact: Walt Quitter - NC4B (703) 869-5241
- Seaford, Delaware (Laurel VEC) Walk-in  
Contact: Richard Osborne - KV3D (302) 629-0607
- Nov. 12 Frederick ARC (Frederick, MD) (ARRL VEC) Limited Walk-in  
Contact: Rick Ogden (301) 845-2670
- Massanutten ARA/Valley ARC (Harrisonburg, VA) (ARRL VEC) NO Walk-ins  
Pre-registration required 3-4 weeks in advance.  
Contact: Wayne Miller - KB4WOM (703) 867-5428

\*\*\*\*\*

While most examinations are offered on a walk-in basis,  
preregistration is desirable in all cases.

ALL EXAMINATIONS REQUIRE THAT YOU SUBMIT:  
Completed FCC Form 610 and  
Copy of your current Amateur Radio license (bring original license).

For ARRL VEC exams, you must also submit a \$4.55 check made out to ARRL/VEC  
For Mountain VEC Exams, Novice tests are free. All others are \$2.00  
For W5YI VEC Exams, the cost is \$4.35.  
For Laurel VEC exams, no charge.

IMPORTANT NOTES: Certificates of successful completion for theory tests are not  
always accepted. Check with the contact person for the exam you wish to take.  
While most examinations are offered on a walk-in basis,  
preregistration is desirable in all cases.

This schedule of Examinations can be found each month in Auto-Call Magazine  
Please advise NK4U of your examination schedules.



# Training Classes

Robert Milligan - KI4MB

6608 N. 18th Street Arlington, VA 22205

Phone (703) 533-0650 (Home), (703) 534-1319 (Recorder)

This column lists all known Amateur Radio license courses in the greater Washington/Baltimore area and the name and phone number of contact persons at participating clubs. Please keep KI4MB advised of any changes so we can keep this list up-to-date

**Novice Classes**, Winchester, Virginia. Sponsored by Shenandoah Valley ARC. Starting August 29 and meeting every Monday from 7:00 p.m., to 9:00 p.m. through November 14 at SVARC Clubhouse, 2921 Grace Street, Winchester, VA 22601. For information contact Walt Quitter - NC4B at 367 Buckingham Drive, Stephens City, VA 22655. Phone (703) 869-5241 days.

**General/Technician** theory course, Sterling Park, VA. Sponsored by Sterling Park ARC. Classes start September 17 and meet each Thursday evening for 12 weeks-7:30 - 9:30 p.m. For information, call Art Nevins - WA4NTP (703) 437-9382.

**Novice Classes**, Vienna, Virginia. Sponsored by Vienna Wireless Society. Starting in September. Classes will be held at the Vienna Town Community Center. More details will be reported in the August issue of Auto-Call. Contact: Dave Guffy (703) 385-6608.

## GENERAL INFORMATION

Alexandria Radio Club - contact Harry Jones - N4CWP (703) 521-4624  
Anne Arundel - contact Tony Young - WA3YLO (301) 262-1917  
Baltimore ARC - contact Ralph Huber - KA3HAM (301) 321-5748  
Baltimore Radio Amateurs TV Society (BRATS) - Contact Bill Self (301) 669-0149  
Chaverim, Inc. - Contact Bob Teitel - W3IDT - (301) 654-3484  
Frederick ARC - contact Steve Bauman - W3FOA - (301) 662-4552  
Goddard ARC- contact Chris Spinolo - KA3RTC - (301) 776-5710  
Laurel ARC - contact Frank Treadwell - K3LDE (301) 498-2213  
MADRAS - contact Renee Culver - KC3NG (301) 949-9220  
Montgomery County Department of Recreation - (301) 468-4050  
Mount Vernon ARC - Contact John Forrest - WZ4A (703) 820-3044  
Rock Creek ARA - contact Walt Ramsey - AK3B (301) 949-3954  
Shenandoah Valley ARC - contact Walt Quitter - NC4B (703) 869-5241  
Southern Maryland ARC - Contact Bob Curran - KA3GCC (301) 627-3040  
Sterling Park - contact Art Nevins - WA4NTP (703) 437-9382  
Tri-County ARC - contact Al Sines - WA3QGA, P.O. Box 710, College Park 20740  
Vienna Wireless - contact Dave Guffy - NY4V (703) 385-6608  
Washington Adventists - contact Henry Miller - W3BWN (301) 474-7376  
Woodbridge Wireless -contact Tim Farrell - AF2T (703) 590-5226

This column is published in each issue of the Auto-Call magazine.

Local clubs are urged to list their training programs  
far enough in advance for effective publicity.



## Congratulations to:

**Anne Arundel Radio Club** for earning an All Time ARRL Field Day Record - regardless of class. The May/June issue of the National Contest Journal shows that AARC's '84 Field Day club score was 26,570, in the 5A battery class. They were running 5 watts and used 49 operators. The nearest competition was from Chekaw ARS, in 3A battery class, with a score of 18,610. (AARC "Ham Arundel News" 6/88)

**Anne Arundel Radio Club** on winning first place, single Op, in the ARRL 1988 January VHF Sweepstakes. (AARC "Ham Arundel News" 6/88)

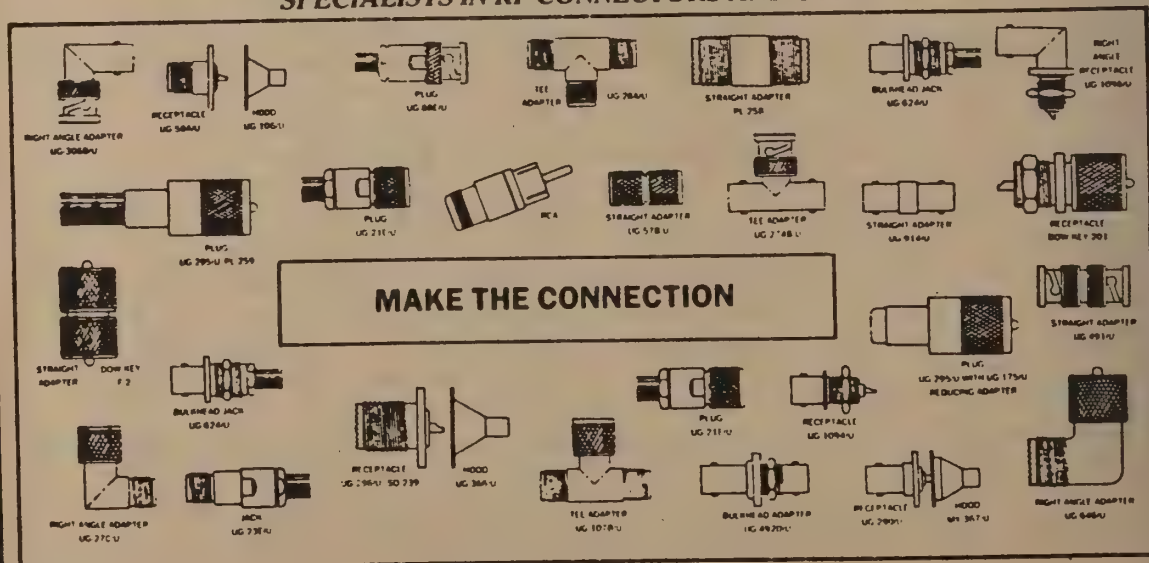
**Geri Sweeney - N4GHI** on being elected to the A-1 Operator Club. This honor was earned through her continuous observance of the very highest of operating standards. Membership in this elite group attests to superior competence and performance in the many facets of Amateur Radio operation: CW, phone, procedures, copying ability, judgment and courtesy. Geri is Net Manager of the Atlantic Region Net and new member of the ARRL National Emergency Response Committee (ARRL Field Forum 4/88)

**Jack Kelleher - W4ZC** on receiving the IEEE Professional Achievement Award plaque for 1987.

**Lawrence R. Krevor** who has been appointed Assistant to the Chief of the Private Radio Bureau of the FCC. Krevor was previously Senior Attorney-Advisor in the Legal Branch, Tariff Division, Common Carrier Bureau and has been with the FCC since 1983. (ARRL Letter 5/23/88)

# The R.F. Connection

"SPECIALISTS IN RF CONNECTORS AND COAX"



**The R.F. Connection**

213 N. Frederick Ave., Suite 11, Gaithersburg, MD. 20877  
301-840-5477

280



# Priorities

GUEST EDITORIAL

By Chuck Hite - W3SOG

There was a time when Amateur Radio clubs were fun. Groups met socially to brag about contact made, exchanged experiences on the air, discussed technical problems, organized "work parties" to erect and replace antennas and towers or to assist families in disposing of radio equipment left by Silent Keys. We also installed complete stations for handicapped or incapacitated hams. At club meetings we socialized, participated in hunting hidden transmitters, had picnics, planned for and had a ball in Field Day activities, helped each other solve sticky rig problems, argued over points and cheated while pitching horse shoes, worked on construction of club electronic gadgets, helped teach youngsters and other code and theory, helped them build or collect and set up their first ham stations, solved some TVI complaints, shared donuts, coffee, sandwiches and cider. All of these things promoted the welfare, warm feeling of comradeship and the growth of Amateur Radio. That era resulted in building a large pool of prepared citizens who served their country well in war and who have continued to serve well whenever and wherever needed in peacetime civil emergencies and civic affairs.

Things aren't the same today. Haven't we wandered into some areas from which we may want to extricate ourselves?

Today we are involved in activities that, by no stretch of the imagination, can be called Amateur Radio. Drills to increase proficiency are admirable and necessary, but our "drills" today often consist of furnishing non-ham organizations with free communications for their fund raising events. These are not very helpful in preparing us for handling formal messages of the type used in emergency traffic.

Hamfests have now become major fund raising affairs - highly organized and time consuming. Every year we meet

with rapidly increasing costs for site rental, public utilities and other necessary expenses, with consequently shrinking bottom line figures resulting. Are our Hamfests becoming more profitable to others than to us? The shrinking net returns go to charitable causes.

Planning and producing a successful Hamfest takes a major part of the time any of us can afford to assign to ham radio. The load falls on the few in any club who are willing to accept responsibility for its success. Hamfests can easily become a burden and a detriment to Amateur Radio clubs. They really do not benefit Amateur Radio to a degree commensurate with the energy they extract.

Swapfests are fun, but today's Hamfests must get bigger every year to remain profitable. Some clubs have found it necessary to raise ticket prices to a point where it becomes a valid question of whether it is more satisfying to attend or go somewhere else with the family for a Sunday outing. In an effort to attract more patrons, clubs now cater heavily to computer interested people. Though computers are used in our hobby, there is no reason for us to allow Amateur Radio Hamfests to be inundated or overshadowed by computers. Some hamfests even include Arts and Crafts and miscellaneous hucksters of items totally foreign to AMATEUR RADIO.

Each year hamfests absorb a great percentage of one of our most precious resources, our spare time. This asset we all have to ration carefully to live normal balanced lives. Because of our benevolent contribution to fund raising affairs, we have reached a point where we sometimes can't generate the interest needed to mount a good Field Day outing. Field Day is a grand opportunity to enthuse and train young operators and to socialize  
(Continued on page 26)



## GUEST EDITORIAL - Continued

and also operate our own stations for pleasure.

What kind of Amateur Radio hobby is this? The stated purpose in most Amateur Radio club constitutions is "...to promote Amateur Radio." Shouldn't we take a critical look at the predica-

ment in which we have put ourselves and our hobby and carefully reconsider our priorities?

As a young father said, when his wife handed him his infant son, "I think it's time for a change!"

Chuck Hite - W3SOG

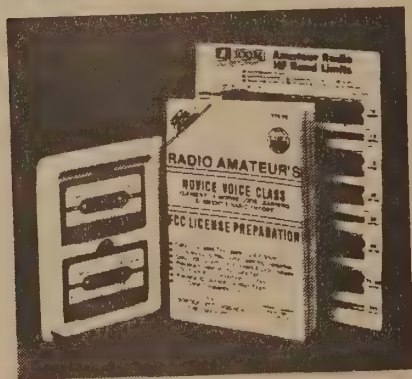
\*\*\*\*\*

The above is a Guest Editorial. Any responses should be sent to W3SOG. Auto-Call will be receptive to comments.

## AUTO-CALL WELCOMES GUEST EDITORIALS.

Do you have an editorial you would like to have published in Auto-Call? Let us hear from you. The Foundation does reserve the right to edit or refuse any material the Executive Committee considers inappropriate, but will check with the writer before any substantive change are made. Try to keep editorials to a page or less.

# Gordon West's 21 DAY NOVICE

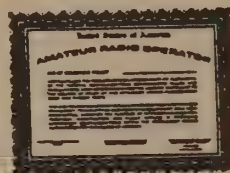


## \$19.<sup>95</sup>

Plus \$2.<sup>50</sup>

Postage and  
Handling

INSTRUCTOR  
DISCOUNT  
AVAILABLE



**CODE TAPES • 112 PAGE BOOK • BANDS CHART • ALL FCC FORMS  
SAMPLE TESTS • HOTLINE • PLUS MORE!**

STEREO THEORY TAPES COULD BE SUBSTITUTED FOR THE BOOK FOR THE VISUALLY IMPAIRED. PLEASE ASK US.

- \$70 in equipment certificates from ICOM, KENWOOD, & YAESU.
- Ham radio equipment "Wish Books".
- Laminated world map.
- ARRL membership forms.
- Free CQ Magazine coupon.
- Hotline for student questions.
- Dealer distributor list.
- School pen.
- Course completion certificate.
- License holder.

## GORDON WEST RADIO SCHOOL

2414 College Drive • Costa Mesa, CA 92626 • (714) 549-5000



# Silent Keys

Tommy Noeman - KA3MKC

Our friend and fellow ham, Tommy Noeman - KA3MKC, died May 28 of complications from cancer. He was a member of both the Metrovision ATV Club and the Metropolitan Communications Network Radio Club. Tommy had participated in several community related activities in the few years that he was a ham. He once owned and operated an audio and TV repair business in Oxon Hill, Maryland. At the time of his death, he, along with his friend Tony, operated an automotive sound system installation business. Those of us who had the pleasure of knowing Tommy will miss him very much.

(Submitted by Dick Logan - WB3EPX and Bob Sporn, WA3GGO)

---

## SPEAKERS BUREAU

Herb Ley, N3CDR

The FAR Speakers Bureau is distributing a listing of eighteen speakers who have indicated their availability for presenting programs at local clubs.

This is the first edition of the Speakers Bureau listing and additional speakers and programs are solicited. It is planned to update the list on a periodic basis and, if the demand arises, it may be provided on magnetic disk format for the Commodore C64 computer.

If you have a special interest or topic that you think would be of interest to clubs, fill out the questionnaire below and offer your services to the FAR Speakers Bureau. This listing of available programs can be of considerable value to program chairmen.

Mail the slip to Herb Ley - N3CDR, P.O. Box 2047, Rockville, MD 20853.

---

### FAR SPEAKERS' BUREAU QUESTIONNAIRE (Please Print or Type)

Name: \_\_\_\_\_ Call: \_\_\_\_\_

Street: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Home Phone: (     ) \_\_\_\_\_ Work Phone: (     ) \_\_\_\_\_

Interests or Topics: \_\_\_\_\_

\_\_\_\_\_  
(Use single words, if possible)

Audio-Visual Aids Needed: \_\_\_\_\_

Signed: \_\_\_\_\_



# MARYLAND HAMFEST



## AND COMPUTER FEST

SPONSORED BY THE



BALTIMORE RADIO AMATEUR TELEVISION SOCIETY

### SUNDAY, JULY 31, 1988

OPEN FOR SET-UP, SUNDAY AT 6 A.M.  
DEALER SET-UP BEGINS SATURDAY AT 2 P.M.

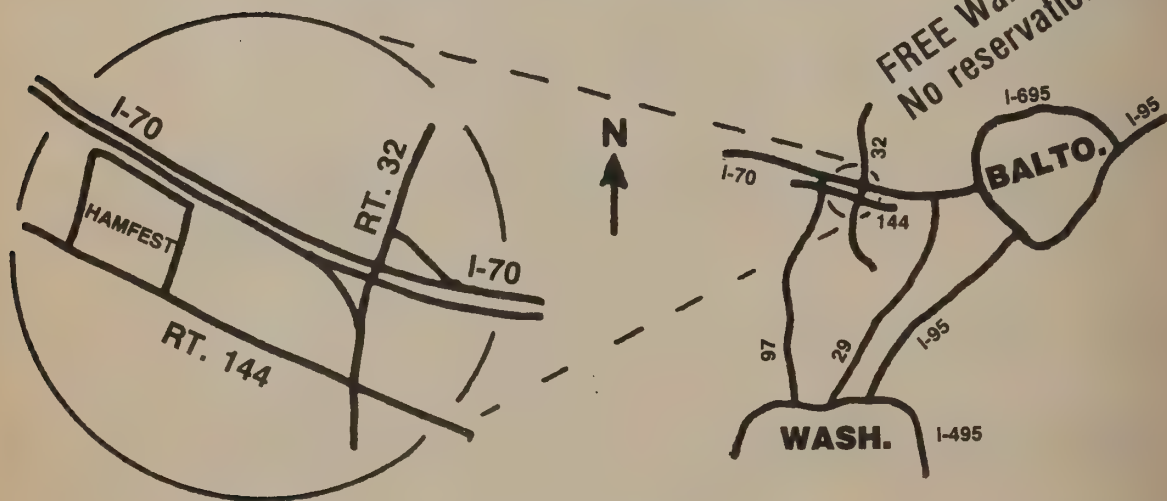
AT THE

## HOWARD COUNTY FAIRGROUNDS

15 miles WEST of BALTIMORE  
just off I-70 at RT. 32 on RT. 144

ACCESSIBLE TO THE HANDICAPPED

FREE Walk-in VE Exams  
No reservations Needed!



GIANT FLEA MARKET    INDOOR/OUTDOOR    EXHIBIT AREAS  
GOOD FOOD    REFRESHMENTS    COMPUTERS    RAIN OR SHINE

TALK-IN: 146.16/76

147.63/03

146.52

TAILGATING

TABLES AVAILABLE

KIDS UNDER 12 FREE!

FOR INFO & RESERVATIONS,  
WRITE: BRATS

P.O. BOX 5915

BALTIMORE, MD 21208



# Coming Events

FIELD DAY  
June 25-26

## CONSTITUTION BICENTENNIAL PROGRAM June 26-30

During the last week of June the Shenandoah Valley ARC will be holding a special event in celebration of the Bicentennial of Virginia's signing of the U.S. Constitution. The club will be using the call sign ~~W200~~RKC instead of W4RKC.

## WEST VIRGINIA STATE CONVENTION July 2-3

West Virginia State Convention Jacksons Mill, West Virginia. The specialty of this traditional affair is homecooked communal dining, dormitory lodging, pizza party, flea market, equipment displays, forums and the most hospitable folks you ever met. For information contact:

West Virginia Radio Council  
Dick Fowler - N8FMD, Rt 3, Box 52  
Clarksburg, WV 26301

## LAKE CANTON, OKLAHOMA FIELD DAY EXERCISE July 9-10

Lake Canton, Oklahoma Field Day exercise held in conjunction with the annual IARU "Radiosport" DX Contest. Commemorative certificate. Grid Square EM-06 contact. Listen for WD5HPU, WA5LTM and other official stations. For information contact Tim Mauldin, WA5LTM Lake Canton Field Day; P.O. Box 19097, Oklahoma City, OK

## MARYLAND HAMFEST & Computerfest Baltimore Radio Amateur Television Society July 31

Howard County Fairgrounds, 15 miles west of Baltimore.  
For information, write BRATS, PO Box 5915, Baltimore MD 21208  
See flyer on page 28

## SHENANDOAH VALLEY HAMFEST - Berryville, VA August 7

38th Annual Winchester Hamfest  
Clarke County Ruritan Fairground  
Berryville, Virginia  
See flyer on page 20

## GAITHERSBURG HAMFEST Sept. 11

Sponsored by Foundation for Amateur Radio  
Montgomery County Fairgrounds  
See flyer on page 19



# Roanoke Division LPM '88

John Kanode - N4MM  
Roanoke Division Vice Director

The 1988 Roanoke Division League Planning Meeting was held in Charlotte, NC on May 14-15 and was hosted by the Mecklenburg Amateur Radio Society.

In attendance were the four Section Managers, Appointees, Assistant Directors, club representatives, interested Amateurs, an ARRL Headquarters staff representative and the Division Director and Vice Director.

The meeting was opened by Bob Darke-W4MHF, LPM-88 Chairman; followed by Wilton McAllister - WB4PCS, Mecklenburg Amateur Radio Society President. After the introductions were made, Division Vice Director John Kanode - N4MM covered the purposes of the LPM and Director Gay Milius - W4UG gave an informative "State of the Division" presentation. Section Managers and their appointees then gave presentations on activities within their sections. Items such as emergency preparedness, traffic, public information on Amateur Radio, affiliated clubs, packet, NTS and ARES/RACES were presented and discussed. QSL Bureau Manager Roger Burt - N4ZC gave an excellent status report on the two ARRL outgoing QSL bureaus and covered information on how to properly use the bureau.

An FCC update was given by John Kanode - N4MM. Recent developments on PRB-3, 87-14 (220 MHz issue) and the proposed rewrite of the Amateur rules were covered and discussed. Other FCC related subjects were also mentioned.

One of the highlights of the LPM was a session conducted by Rosalie White-WA1STO from ARRL Headquarters. She did a superb job of covering many aspects of activities and actions that take place at our Headquarters in Newington, CT. An open Question and Answer session followed her formal remarks and many subjects were discussed.

The final activity for the Saturday meeting was a barbecue cookout at the hotel pool patio area. The food was plentiful and very good and everyone had an opportunity to meet and chat with each other. It was a fine social event with nice weather, to boot.

The meeting continued Sunday morning with Bob Darke starting with some important information. We were glad to have Honorary Vice President Phil Wicker - W4ACY and his wife, Alice - WA4ZMA, with us for this part of the meeting. Follow-up on Section Manager reports were given and some appointees completed their reports.

Reports and activities of the five ARRL board advisory committees were reviewed by John Kanode - N4MM. The biggest activity being that of the DXAC with the creation of new single band DXCC awards and other changes to the DX program.

The final session at the LPM was the open forum and resolutions. Sixteen resolutions were presented and approved for possible mention at the July ARRL Board meeting or for ARRL Headquarters staff action or for the Roanoke Division Director's action. Final remarks were made by Rosalie, Gay and John.

Many thanks to all those who participated. And special thanks to the Mecklenburg Amateur Radio Society and its members for hosting the 1988 LPM. It was well planned and the facilities were perfect. A job well done!

During the afternoon break, Charlie Wright - W4PED took the traditional LPM group photos. Many thanks to Charlie for doing this nice service for many years..

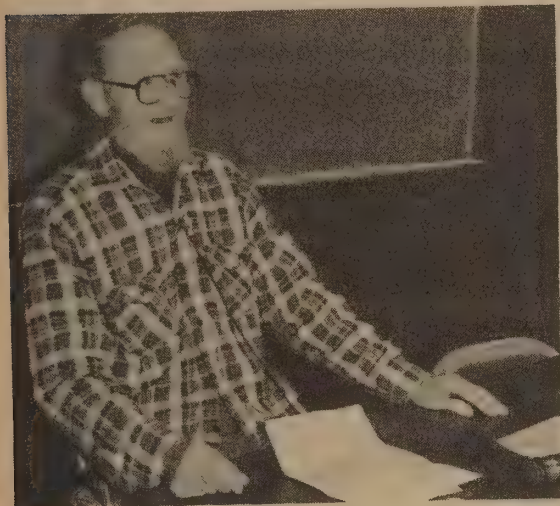
If any affiliated club in the Roanoke Division would like to host the 1989 LPM, please contact Gay or John.



# Recognitions

## A 90th Birthday Tribute to W3CU

Our old friend Royal Mumford- W3CU first saw the light of day in West Jordan, Utah, on May 23, 1898. Now we join him in celebrating his 90th birthday!



Royal comes from real pioneer stock. His family traveled the old Oregon Trail by covered wagon and settled in the Oregon Territory. By tradition, they were teachers. Their labors helped to civilize the western frontier.

Royal and his brothers, Harold and Bill, became interested in that new-fangled "wireless" technique as early as 1912. By 1916, Royal had built a 500 watt spark rig that was reaching out into California, and it was decided (for him) that it was time to get a license. However, love's labor was soon interrupted by World War I and the rotary spark went into mothballs.

Having signed up in the U.S. Navy, he was graduated from a training school at Mare Island and shipped out on his first

voyage to South America, by way of the Panama Canal, with a powerful shipboard spark rig. Among his other voyages, Royal made three round trips across the Atlantic to France, prior to war's end and his discharge from the Navy in 1919.

After WW-I, our friend finished school and became a full-fledged school teacher (which was his primary pursuit for the next 14 years), while also getting back on the air so he could keep in touch with his two brothers who were also dedicated Radio Amateurs.

Once again the clouds of war intervened. Royal Mumford put on a Navy uniform and found himself in the Harvard/MIT Radar Engineering School. Upon graduation, the displaced school teacher was sent to Mare Island (you guessed it - to teach radar to the fleet). He did the job so well that he received orders to Annapolis -- somebody had to try to teach radio and radar to the Midshipmen of the U.S. Naval Academy. Now you know how our hero came to Maryland!

Royal retired from the Navy in 1950 and went to work for Westinghouse. He was a "Circle-W" man for ten years, retiring in 1960. He now had more time for his two life-long hobbies - Amateur Radio and bee keeping. Now 28 years after his Westinghouse retirement, Royal Mumford is still active in Amateur Radio, is regarded as one of the local experts in bee keeping and, best of all, he is our friend, neighbor and colleague in the Anne Arundel Radio Club.

HAPPY BIRTHDAY, ROYAL MUMFORD !!!

(George Boring - W3KS)

\*\*\*\*\*

In March of last year, Royal held Anne Arundel Club members spell-bound during an informal discussion of the early days in HAM radio. He related some of the exciting experiences he and his two brothers had with their early equipment.

(Anne Arundel "Ham Arundel News")



# Recognitions

Elizabeth Zandonini - W3CDQ

One of the best known and best loved YL in Amateur Radio is "Liz" Zandonini-W3CDQ.



Liz has been operating consistently, and almost every day, for the past 66 years!

Early in World War I, Liz took a National Radio course, hoping to become a ship operator and do her part in the war effort. She got her commercial license in 1917 but never got to sea. Instead, she found herself teaching code to hospitalized veterans at Fort Meade and Fort McHenry.

In 1921 she went to work as a Radio Aide at the National Bureau of Standards and began a long and colorful career. She worked in the Central Radio Propagation Laboratory (CRPL) and WWV until they moved to Boulder, Colorado. She then transferred to the Bureau's Radio-activity Section. She retired from the Bureau in June 1965 - after 44 years of service.

In 1922 she decided to get an Amateur Radio license. That was the beginning of her real career - Ham Radio.

Now approaching her 90th birthday, Liz looks back over her 66 years of hamming with many fond memories. She has made thousands of friends through her operating activities and personal contacts and a good deal of traveling throughout the U.S. and Europe. She has entertained innumerable Hams in her home, particularly foreign Amateurs, and maintains a constant flow of "pen pal" correspondence to all corners of the globe. She has been too busy enjoying all of her activities to ever consider marriage.

W3CDQ is strictly a cw operator - and on a straight key! She was active in the "Governors to President's Relay" that was sponsored by the ARRL for many years and has pictures showing her with the groups making presentation of the messages to President Roosevelt and President Truman at the White House.

She has been active in the Foundation since it began in 1957. She is a Life Member of ARRL and has been an Assistant Director since 1948. She is a past president of the YLRL, active in QCWA, OOTC, AWA, Rock Creek Amateur Radio Assn., WAYLARC, etc., etc. etc.

Liz was operated on for breast cancer about a year ago and her greatest concern, as soon as she came out of the anesthetic, was whether she would have any trouble with her keying "fist." She worked diligently to strengthen the muscles and was back on the air within days after she returned home from the hospital.

She has had some complications recently and (at the time of this writing) is in Sibley hospital undergoing radiation treatments. Her host of friends and admirers are praying that she will be back on the air soon - and for many years to come. Drop her a QSL. She will appreciate it.

(Submitted by K4LMB)

# National Capital DX Assn.



Information: Craig Stevens - KZ3H, 4409 Clifton Spring Court, Olney, MD 774-3410

## WORKED 4,483 COUNTRIES

### NATIONAL CAPITOL DX ASSOCIATION PRESENTS SUPER GOLDEN JUBILEE AWARDS

The National Capital DX Association has proudly awarded the club's SUPER GOLDEN JUBILEE achievement plaques to 20 members of the club for making 2-way Amateur Radio contacts with 200 or more countries during 1987.

Winners are shown in the photo below. The listing is in order of score rather than order of appearance and the number in parenthesis shows the number of countries each one worked. Collectively, they worked 4,483 countries!



K6IR (268), N3II (254), WC4B (250), N4MM (250), N3EHD (233), W3UJ (230), WA3DVO (227), KC3EK (223), W0YVA (223), K3SKE (222), N3US (221), KK4HD (219), N4RA (218), N3FBN (217), W2GHK (207), KZ3H (207), W3YY (206), N3TO (205), G4MZF (203), W3NF (216).

The NCDXA Jubilee program is an extension of the very popular American Radio Relay League program commemorating the 50th anniversary of the League's "Century DX Club," introduced in September 1937. The ARRL awarded a certificate to each Amateur Radio operator who attested that he had made 2-way radio communication with stations in 100 or more countries in 1987.

The National Capital DX Association was organized in 1972 to further the exchange of DX information, promote Amateur Radio, DX knowledge, fraternalism and individual radio operating efficiency. The club has over 75 members in the greater Washington DC area, including Maryland and Virginia. For further information, contact:

Kenneth M. Miller - K6IR, President

J. Craig Stevens - KZ3H, Secretary



# Metrovision Amateur TV Club

FAST SCAN - COLOR - ATV

Meetings: Quarterly: Call for next meeting time and place.  
Repeater: WA9GVK/4 (Video and Audio) 439.25 MHz in; 426.25 MHz out  
Also accessible on 144.970, simplex, audio.  
On-the-air: Sundays at 8:00 p.m.  
Mailing: Metrovision, Inc., P.O. Box 8231, Falls Church, VA 22041  
Information: Warren - N4MWU (703) 573-9619  
Dick - WB3EPX (301) 439-8135

---

We would like to announce that the 900 MHz ATV transmitter has been finished and checked out. The power output will be from 1/2 to 1 watt and will operate at a frequency of 923.250 MHz. Our new power amplifier, which is in the capable hands of Ed - W3EKT, is nearing completion and should be on the air soon.

ATV propagation has been pretty good lately, especially during the period from May 10 to the 15th, during early morning and evenings. Ken - W3DFS was able to work the Philadelphia repeater, W3PHL (whose power output is only about 2 watts) receiving P2 quality pictures in return.

The intermittent interference that the repeater has been experiencing lately is caused by new packet radio stations that are operating near the ATV repeater's transmit frequency. The interference is most noticeable in the form of a whiting-

out of the picture. We are contemplating what to do about this problem.

Metrovision has plans for a fifteenth anniversary party at our September meeting. Details as to the day, time and place will be announced later.

We are saddened to have to report that Tommy Noeman - KA3MKC passed away at the Washington Hospital Center on May 28 after a long illness. Most of us will remember Tommy for his help with various technical problems, and as just being a good friend. He was a past president of Metrovision and appeared as net control for our Sunday night ATV net. We will miss him very much.

See you on ATV.

Dick - WB3EPX

---

## EASY TORNADO WARNING SYSTEM

An easy warning system for detecting an approaching tornado can be found in your TV set, according to an article appearing in the Rochester, NY "RaRa Rag." Tune the TV to channel 13. Turn the volume down, and turn the brightness control down until the screen is almost black. Now switch over to Channel 2 and leave the volume turned down. Lightning will produce momentary light bands of varying width and color across the screen. A tornado that is within 15 or 20 miles will fill the screen with a single color. Should this occur, switch off the TV, take a portable radio and immediately seek shelter.

The article goes on to explain that lightning and tornadoes generate a signal around 55 MHz (frequency of channel 2) and these storm signals will override the brightness control. Channel 13 is at the high end of the VHF band and is, therefore, not affected. Set the brightness for Channel 13 and then watch the storm signals appear when you watch Channel 2.

Tornadoes are not prevalent in this area but it is a tip worth remembering.

# Maryland Mobileers Amateur Radio Club



Address: P.O. Box 784, Severna Park, MD 21146  
Meetings: First Friday of each month at 1930 hours. C.I.D. Building at  
Crownsville State Hospital, Route 178 and Crownsville Road  
Club Repeater: 146.805 MHz  
Traffic & Information Net: Monday evenings at 8:30 p.m. on 146.805 MHz  
For Information: Nancy Alley - N3FHB

The Maryland Mobileers Amateur Radio Club (MMARC) operated a special event station on Saturday, May 21st in commemoration of Armed Forces Day. The Special Event Station was operated on board the U.S.S. Torsk submarine, docked in Baltimore harbor. The HF rig was set up in the radio room of the submarine and the VHF rig was set up in the galley. A 4 BTV vertical ground mounting antenna was mounted on the top of the sail.



A total of 314 contacts from 37 states were made: 206 on HF and 108 on VHF. Eight Amateurs operated from 9:30 a.m. to 4:00 p.m. The operators included Jerry - K2ILQ (retired Navy), Bob - W3GOU (retired Air Force), John - KO4A (retired Marines) Fred - KC3F (active duty Coast

Guard) and Glenn Durbin - N3EYU (ex-Army). Other operators included Dean - N3CAC, Nancy - N3FHB, and Jason - KA3SIQ. Visitors toured the submarine throughout the day. QSL cards received as a result of last year's Torsk operation were displayed.



The Maryland Mobileers Amateur Radio Club provided communications for the Walk-for-Heart, held in Annapolis on Saturday, May 8th, between 8:00 a.m. and 1:00 p.m. Dean - N3CAC and Nancy - N3FHB provided net control. Other MMARC members assisted the Boy Scouts by providing communications at the First Aid stations along the route. Included were Bill - WA3SCW, Glenn - N3EYU, Jerry - K2ILQ, John - KO4A and Ron - KC3YY.

(Continued)



# Metropolitan Communications Network Radio Club

Meetings: Quarterly, on the second Sunday of the month.  
W.A.T.A.'s Community Meeting Room, 4729 14th Street N.W.  
(at Decatur Street), Washington, DC - unless otherwise announced.

Repeater: WB3DBU/R, 52.250 MHz in; 53.250 MHz out. Accessible on 144.950  
MHz in the simplex mode.

On-the-air: Saturdays at 1900 hours.

Mailing: c/o Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903-

Information: Bob Sporn - WA3GGO (301) 434-1719

---

It is with deep regret that we have to announce the passing of Tommy J. Noeman - KA3MKC, who died of cancer May 28th. An active member of our club, Tommy will be missed.

Fate has not treated us too kindly of late. Our Repeater was struck by lightning. Repairs are in progress. We do continue to maintain our nets in spite of all this.

On May 14, Metropolitan Communications Network Radio Club member Robert Milligan - KI4MB and his wife, Mary Milligan - KA1KWP and Randy Moler - KA4UFF assisted in the International Aerobatics Club Chapter 11 of Washington, DC with their East Coast Regional Aerobatics Championship meet. The meet was held at the Winchester - Fauquier County Airport. The day proved to be a busy one with seventeen participants flying their Pitt Special biplane, antique and classic, mid-wing monoplane, or

amateur built plane through maneuvers three different times.

## THE SUNDAY MORNING COFFEE NET (6 METER AM) ON 50.4 MHZ AT 0900.

Recently, Richard Weaver, Jr. - KA3BTD worked the Truck Islands in the Caribbean, on six meters sideband. The six meter band was open the last week in May.

## MARYLAND FREE STATE SIX METER SIDEBAND NET: SUNDAYS AT 1900 HOURS ON 50.125 MHZ.

Rick Weaver, Jr. - KA3BTD at last received QSL cards from Lima, Peru and Buenos Aires, Argentina; stations he worked in 1987. Rick also received a QSL card from his nephew, Paul - KA3RXW. The South American stations were worked on ten meters. Bernhard (Bernie) E. Keiser - WD4O, from Vienna, Virginia, has joined our nets.

Bob - WA3GGO

---

## MARYLAND MOBILEERS - Continued

The MMARC provided communications for the Glen Burnie Bicentennial Parade on Sunday, May 29th between Noon and 4:30 p.m. in Glen Burnie. Volunteers were positioned at the Harundale Mall, Corkran Junior High School, at the reviewing stand, and along the parade route. Volunteers included Jerry - K2ILQ, Glenn - N3EYU, Ken - W3VVN, Bob - W3GOU, Mel - N3EKZ. Assistance was provided by Dick - N3FKV and his son, John - KA3SRN.

Art - W4PON operates a simplex net from Grasonville, MD on 147.495 at 2000 hours on Wednesdays. Ron - KC3Y operates a 2 meter sideband net on 144.215 each Tuesday at 2000 hours from Glen Burnie, MD. Both are members of the Maryland Mobileers. Anyone is invited to check in to either of these nets.

Nancy - N3FHB  
Secretary

# Anne Arundel Radio Club



- Meetings:** 1st and 3rd Thursdays at 8:00 p.m.  
Davidsonville Family Recreation Center, Queen Anne Bridge & wayson  
Roads off MD Rt. 214 near Annapolis.
- On-the-air:** Thursdays, 2030 Local time when there is no club meeting,  
on 147.705/105.  
Tuesdays at 2030 Local time (2100 DST) on 28.710.  
The Chesapeake Bay Weather & Traffic Net on 147.705/105  
at 1100 and 1500 every weekend day and public holiday  
from April 1 to November 15.  
Maryland Slow Net (MSN) every evening at 1930 on 3.7170 MHz  
W3VPR Packet Bulletin Board on 145.09 MHz.  
Novice Packet Bulletin Board on 223.40 MHz
- Address:** P.O. Box 308, Davidsonville, MD 21035
- Information:** Margaret (Holly) Bevan (301) 923-0229

In order for members to enjoy the use of the club HF station, the clubhouse is now being opened on those Thursday nights when the club does not meet. Several who do not have HF equipment at home have happily taken advantage of the opportunity. Some of the new Novices have visited to observe. The practice will continue so long as there is interest shown.

At the May 19th club meeting, Member Royal Mumford - W3CU, who celebrated his 90th birthday on May 23rd, was honored with a tribute written and presented by George Boring - W3KS. Royal has been playing with Amateur Radio for about seventy-five years. (See the story on page 27 of this issue of Auto-Call.)

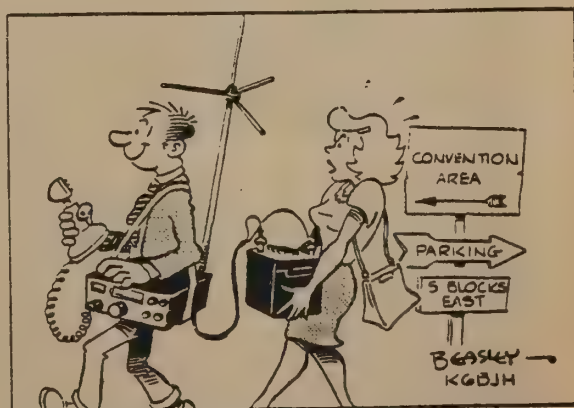
AARC has started a Tube Bank. Over 400 have been inventoried and tubes are continuing to come in to be included. If you need a specific tube to make or repair a piece of equipment, or for use in a project, contact Club Secretary Dick Campbell - N3FKV at 757-9010 to see if it is available. Anyone desiring a list of available tubes, send SASE (with 2 units of postage) to AARC Tube Bank, P.O. Box 308, Crownsville, MD 21035.

The W3VPR Packet Bulletin Board now answers connect requests on 223.40 (Novice 220 sub-band) as well as on 145.09. Any new hams are invited to join in the fun of packet.

And speaking of packets: In early May the Naval Academy Radio Club installed a packet radio TNC and connected it to the Academy terminal network. Club members are able to access the TNC from any computer terminal on campus. The TNC, operates under the club call of W3ADO. However, it has been given the alternate call sign WB4APR-5 so that it can be used by local Annapolitans as a digipeater, on 145.05 MHz. The TNC was installed by Bob - WB4APR, Frank - WD6DUQ and Tom - KF4SJ.

Andy Phillips - N3GEF, Preston Fitzberger - N3GEI, Jim Darlack - N3GEU and Oscar Ramsey - KA3QKB have all upgraded to Tech. Ray Anderson - KA3SYU is now General and Bill Howard - K1LNJ made to Extra. Congrats!

Holly - N3BMB



OH, ALL RIGHT--- YOU CAN HAVE ONE OF THOSE LITTLE HANDHELDS, LIKE THE REST OF THE GUYS! ..WORLD RADIO JANUARY 1987



# Southern Maryland Amateur Radio Club

Meetings: 2nd Friday of each month, 7:30 p.m.  
Church of the Nativity, Manchester Drive, Camp Springs, Maryland.  
(Right at first light on Route 5 South of Beltway and immediately  
left into mid-block driveway).

Repeater: W3PT/R 147.15/147.75

Nets: Informal - Tuesdays, 8:00 p.m., W3PT/R  
Informal - Thursdays, 8:00 p.m., 28.447

Information: P.O. Box 273, Cheltenham, MD 20623

---

Our latest novice training class has yielded five new novice members to our club and a couple have already upgraded to Tech. Sam - KA3TAW was one of those who upgraded but due to an administrative snafu he is still awaiting his new call sign. This, in turn, has kept him from ordering his new QSL cards. Patience, Sam.

Joey - N3EQL has kept many of our members busy with public service projects, including the Boy Scout Expo, the Luthern Missionary Walk-a-thon and the March of Dimes Walk-a-thon.

Field Day activities are taking shape and, by the time you read this, everyone will still be talking about the wonderful time they had camping and the fine array of food that Kelly - KA3MVU arranged for the occasion.

Concerns have been expressed about the age and state of our repeater so, in planning for the future, Bernie-KA3DNW has been appointed chairman of a committee to raise funds for its eventual replacement. More will be heard from Bernie in the coming months but he has already received a couple of \$100 contributions. Our thanks to these donors.

There can be no question that conditions on the 10 meter band are improving. In fact, Jim - N3AST has had difficulty

closing the Thursday night net. Every time he tried to close the net, additional check-ins kept calling in. One was from Kansas City, Mo., another from Ft. Lauderdale, Fla., and the most distant was from Australia. Better luck next time, Jim.

The Saturday morning breakfasts are going on regularly at 8:00 a.m. each week and we invite all to come and join us. We usually meet at Tucker's Restaurant, but changes sometime occur. It's advisable to check into the nets to make sure there is no change in place.

We're glad to see Gould - KA3DUE recovering from his recent stay in the hospital. We all hope for your continued recovery, Gould.

One of the things that accompanies our warmer weather is these troublesome thunderstorms. During May, the National Weather Service called up our SKYWARN Net Control operator on four occasions to assist them during severe thunderstorm watches. As of this writing (June 1) I received a call advising that the Weather Service was activating the SKYWARN watch for this evening. Joey - N3EQL and the group appear to be getting a real workout this year.

Bill - N3FHV

---

## SOLAR CYCLE PEAK

The peak of the next solar cycle may occur as early as late 1988, and may possibly be the most intense cycle ever measured. Earlier predictions suggested that the peak would not be reached until 1992.

(ARRL Letter 5/23/88)

# Rock Creek Amateur Radio Assn.

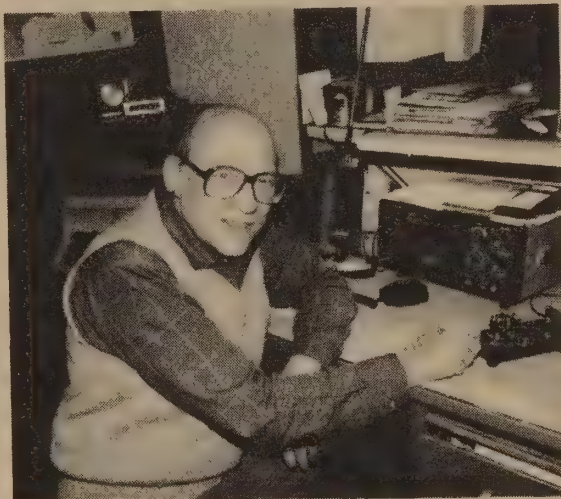


Two Meter Net: FM 144.65/145.25 Mondays 8:00 p.m.  
RCARA Alumni Net: 7.23 MHz, Mondays 11:00 a.m.  
RCARA LUNCHEON: Wednesdays, 11:15 a.m., Anchor Inn, Wheaton, MD  
Meetings: 7:30 p.m. the third Friday of each month  
at Vitro Laboratories.  
Mailing Address: P.O. Box 1913, Silver Spring, MD 20902

In case this issue of Auto-Call is delivered before Field Day, remember RCARA will be operating at the Izaak Walton League Park, off Snouffer School Road. Any Amateurs desiring to operate on Field Day, and who does not have a group to operate with, are cordially invited to join with us under the call sign W3RCN. Regardless of class of ticket, all frequencies available to Advanced Class license will be yours to use. Contact me at 949-3954 if interested.

The Rock Creek Luncheon Group meets weekly at 11:00 a.m. Wednesdays at the Anchor Inn in Wheaton. Hams and their XYLs are welcome. This is a golden opportunity to get together, meet old acquaintances, rag chew about the good old days, and enjoy a good lunch.

Mike Kahn - KA3GSV, Advanced license ham, has been RCARA's Club Secretary for the past three years. He keeps the records of the club's activities, mails out the monthly Rock Creek Ripples (no small job) and is active on the club's nets. He must be doing something right because he gets reelected every year.



Mike Kahn - KA3GSV  
RCARA Secretary

Does your COMPUTER NEED REPAIR?  
**Virginia Micro Systems**

is an

**AUTHORIZED  
REPAIR  
CENTER**



Send or bring in your computer (with the power supply). • Visit our showroom for computers, software and all related supplies. See our Commodore computers: PC-10, Amiga, 128, and 64 • Over 2,000 programs in stock. • Complete line of computer supplies (printers, cables, furniture, diskettes, etc.)

**Virginia  
Micro  
Systems**

13646 Jeff Davis Hwy.  
Woodbridge, VA 22191  
Local: 491-6502 Metro: 643-1170  
Hours: MWF 12-8 TThS 10-4

Commodore is a registered trademark of  
Commodore Electronics Ltd.



George Daly - W3WU, up from Florida, joined us on the 2nd of June. He met a number of his friends and brought us up to date on some of the hams who have moved from this area to Florida.

Bob McCormick - K4FRX, of Columbia, SC, is Net Control for the RCARA Alumni Net. Bob has celebrated his 79th birthday. We wished him Happy Birthday on the net. This note is to let his friends in the area know Bob is going full steam ahead (well maybe not quite full steam). May you celebrate many more, Bob.

Walt - AK3B



# Woodbridge Wireless, Inc.

Meetings: 3rd Tuesday of each month, at 7:30 p.m.  
Springwood Community Center, Corner of Springwood Drive and  
Chauncher Court, just West of Woodbridge Airport.

Repeater: WB4FQR/R 147.84/24 and 449.9/444.9]

Nets: Mondays, 8:00 p.m. local (0100 UTC) 147.84/24  
Wednesdays, Slow CW at 8:00 p.m., 21.164 MHz  
Saturdays at 9:00 p.m. - in new 10 Meter Novice band  
28.460 MHz SSB

Mailing Address: P.O. Box 112, Woodbridge, VA 22194

---

Field day is over now and everyone is counting up their score. This year the WWI field day activities were located at the old Woodbridge airport. No problem with room...But did you ever see a lot of tall trees around an airport? WWI band captains rose to the challenge with push-up masts, temporary towers and all sorts of sky hooks.

This year all local hams received a personal invitation to the WWI June meeting and to Field Day. John-WB4GJZ obtained the mailing list, compliments of EGE, and paid the postage. The folks at Virginia Micro Systems supplied the flyer. Both organizations are active supporters of Amateur Radio activity in Northern Virginia.

Speaking of the WWI meetings, the emphasis is on the program and having a good "eyeball QSO" while doing only the necessary business. In May, Steve-NM7J showed a videotape of a DXpedition to Liechtenstein, an annual event of the Weisbaden ARC Steve was a member of while stationed in Germany. The scenery was gorgeous, the scenario familiar. It's sort of like Field Day with mountains and edelweiss. Can you yodel in CW?

The June meeting always features Field Day. This June the club was treated to a videotape of the 1987 WWI Field Day edited by John - K4EBS. Do we really look like that?

Mr. Arlan Van Dorn, the Deputy Chief of the Field Operations Bureau, Federal Communications Commission, is scheduled for the August meeting. With the recent

FCC move to revise the Amateur Radio part of the FCC regulations, it should prove interesting and informative.

As mentioned in last month's article, WWI said goodbye to Rick Norton - KZ2E and his XYL, Marlis - N4MZJ and their daughter. They left the carpool for a bigger lake in Missouri. 73 and good DX!

Congratulations to John - N4LJS who became the newest member of WWI to get his DXCC. John did it all on CW taking two years, three radios and two antennas before it was over. Of course it's not over. John remains an avid DXer.

One recurring July club activity is the Dale City 4th of July parade. In past years the WWI provided communications. Lately, the service has been expanded to include amateur television. Volunteers are welcome.

The WWI is an ARRL Special Service Club and as such, now has a contact for verifying ARRL awards (except DXCC, of course). He is Denis - WD4KXB. Catch him on the repeater.

In closing, you're invited to check into the Saturday night 10 Meter sideband net. It's on 28.460 (in the Novice/Tech sub-band) at 9 PM local. It's an open net so give a shout and shake up the spiders in Jack - WD4KOF's rig...he's the net control.

Jim - WJ4M



A Diamond is a Ham's Best Friend!

# Frederick Amateur Radio Club

Meetings: 2nd Tuesday, 8:00 p.m. at Frederick County Communications Center  
Montevue Lane, Frederick, Maryland  
Information: Tony Curtis - K3RXX, 9408 Erin Ave., Walkersville, MD 21793  
(301) 845-8856

Hugh Turnbull - W3ABC, ARRL Atlantic Division Director, was the featured speaker at our May club meeting. His report on ARRL activities was appreciated by all present. Such appearances make the ARRL seem a little more real. They afford Amateurs the opportunity to ask questions and get answers about what the League does in our behalf and what plans are being made for the future of Ham radio.

June is always a crowded month for many members of our club. With our annual Fathers' Day Frederick Hamfest and Field Day only a week apart, all willing hands are busy!

Preparation for the 'Fest this year are under direction of Ernie Hansen-W3VVV. He has to be "on the ball." Things happen that require making decisions unexpectedly and finding alternatives in a hurry. We recently discovered the second building we filled last year has been demolished by the Fair board for economic reasons. Ernie quickly reserved other space to replace it, so we are prepared.

Our talk-in station, to be manned by Harvey Starkey - K3IAG, will operate on 146.52 simplex, under the club call, K3ERM.

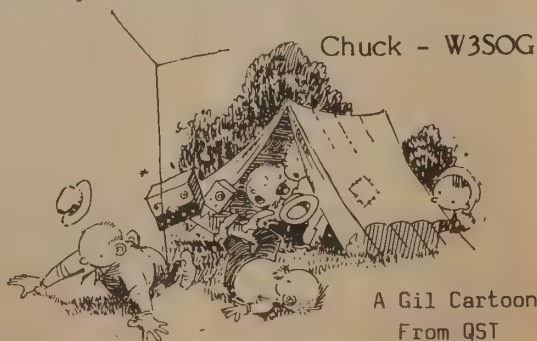
When we learned that our simplex antenna had been claimed by another group using the Frederick Fairgrounds, a new antenna installation become necessary. We always thought the old one was ours. A breakdown in communications, I guess. The new system for the simplex frequency will be in place before we need it. Now if someone else doesn't claim Uncle Harv or his BELOVED air conditioned Talk-in trailer, we will be in business.

Two local repeaters, W3SOG/R on 146.13/73, which will be monitored at the 'Fest, and WA3OHI/R on 147.66/06, will providing alternate sources for information. Catering service will again be on the fairgrounds to help satisfy appetites for food and refreshing cold drinks.

We have been planning for, and expect to enjoy, a successful Field Day operation this year for the first time in several years. The site has been secured and Charlie Higgins - WA3KHE has charge of arrangements. The site is near the East Alcoa plant which is located between Frederick and Adamstown, Maryland.

The May session of the Frederick Volunteer Examining Group was held on the second Saturday. The next tests will be given Saturday, August 13 at 9:00 a.m. at the Communications Center on Bonavue Lane in Frederick, Md. Although a few walk-in tests can be accommodated, it is best to contact Rick Ogden - N3RO thirty days ahead of the test date. Phone (301) 845-2670. You will thus assured being included in the group who will take the test.

If your Auto-Call subscription has expired, renew now and keep yourself informed on what goes on in the area. Your expiration date appears with your address on each issue. Auto-Call is a good buy at \$6.00 a year.





# MADRAS

The Maryland Apple Dumpling Radio Amateur Society, Inc.

Meetings: 2nd and 4th Wednesday of the Month - 7:30 PM  
At the WKYS conference room, 4001 Nebraska Ave., N.W.  
Repeater: 144.85 / 145.45 MHz

---

## MADRAS HAPPENINGS

MADRAS provided support for the Rockville Memorial Day Parade and Festival. MADRAS members assisted with parade preparation and logistics. John-KA3OVK, organized this public service event. He was assisted by Ross-K3USO, Ken - N3AQG, Renee - KC3NG, Kevin - KA2EYP, Laquetta - KK4WQ, Charles - WB3GYE, Warren - NM3U, Alan - N3EHD and John - WA3YJA. Thanks to all who participated.

Warren - NM3U, now has his TS-940 back! In addition, Warren is now the proud owner of a TA-33, which he erected after unpacking the 940.

Warren was assisted by Renee - KC3NG and Charles - WB3GYE.

MADRAS members had a great time at the Manassas Hamfest. Several members were observed carrying newly purchased equipment, antennas, packett goodies and various items to enhance their stations and operating abilities.

FIELD DAY - The excitement heightens as Field Day gets closer. This is a major club activity for the members and we are all looking forward to getting together and working (and playing) as a group.

Anthony L. Davis, N4SAS

---

## Washington Area YL Amateur Radio Club

Washington Area Young Ladies Radio Club

Meets "at least 4 times per year," usually at QTH of Liz Zandonini - W3CDQ  
Information: Phone W3CDQ at 363-7400 or Irene - W3RXJ at 423-7138

---

As reported in the June issue of Auto-Call, Betty Aylor - W3SLS became a Silent Key on May 13. Betty was a member of WAYLARC for over 30 years and has lived in the area since 1941.

Peg - W3HSS, our member who retired and moved to Florida in December, was back for a visit in April but she is not yet on the air from her new QTH. We hope she will soon have her station set up so we can have some QSOs with her.

Liz - W3CDQ has been in the hospital since the latter part of May for treatment of bone cancer. We hope she will continue to improve and will be home by the time this is read.

The Young Ladies' Radio League (YLRL) will have a convention in Hawaii next year - the 50th Anniversary in the 50th State. The date is June 27-30, 1989. Christa Elksnat - DJ1TE, our adoptee from Germany, and her husband plan to attend. Also Barbara Ulatowska - SP2FF, our friend from Poland, will be at the convention. Christa and her daughter, Regina, were here for the 1982 YLRL convention which WAYLARC sponsored and Barbara was here for the 1985 convention held in Las Vegas.

WAYLARC will be handling the Ladies' and Children's Program, as we usually do, at the Hamfest held by the Foundation for Amateur Radio in September.

Irene - W3RXJ

# Laurel Amateur Radio Club

A Volunteer Examiner Coordinator



Address: P.O. Box 1436, Laurel, MD 20707-0951  
VEC Address: P.O. Box 3039, Laurel, MD 20708-0039  
Meetings: Second Wednesday, 2000 local, Informal meeting.  
Fourth Wednesday, 2000 local, Business Meeting, Capitol College.  
Other Wednesdays, 2030 local - 147.54 MHz  
Information: Frank - K3LDE (301) 498 2213 or Emmett - N3BOR (301) 674-4080

May brought LARC's biggest event of the year, the Laurel Main Street Festival. For us, the festival started out at 6:30 a.m. when the festival officials began roaming Main Street. Most of the LARC crowd were in position by 7:00 a.m. when the vendors started coming in to set up.

The parade kicked off at 10:00 a.m. Between 11:00 a.m. and 3:00 p.m. the streets swelled with people. According to festival officials, over 60,000 people crowded the streets during the course of the day.

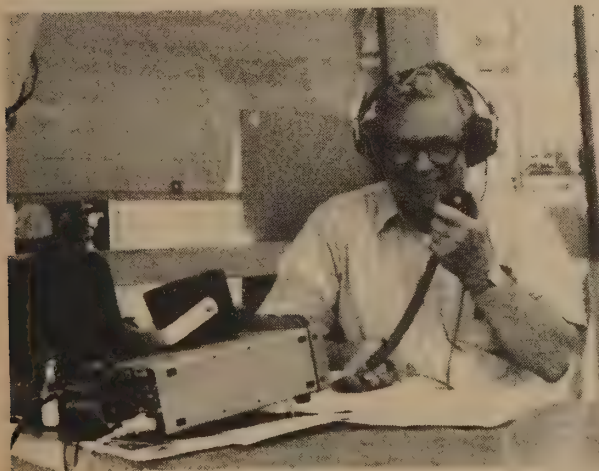
LARC had people stationed at the various vehicle entry points onto the street for the vendors, along the street at 1/2 block intervals, shadowing key festival officials, in the LARC booth next to the information booth, with the Laurel Police communications van and at LARC's emergency operating position at the American Red Cross Office in the Armory.

Alternating as NCS were K3LDE, K3IOG, W3DQI and W3GFS. Others participating were KA3GVR, KA3MFM, W3FNO, N3FQY, N3DYG, KD3S, WA4AVU, KA3QPU, N3CKD, N3DUE, KA3HSC, KD7JZ, WA3OGZ, N3FWX, N3AUQ, N3FXH, KD3EF, KA3QPW and yours truly, N3BOR. See the accompanying photo and the Public Service column in last month's Auto-Call.

LARC members are looking forward to a slightly more adventurous special event this year. We will be operating Special Event Station W3GFS from 1800Z on July 23 to 1800Z on July 24, from Bodkin Island - a two acre uninhabited island in the eastern Chesapeake Bay Southeast of Kent Island. All equipment, supplies, food and people will be transported by boat to this little island.

Frequencies of operation will be the bottom 25 KHz of 80 - 10 in the General phone band and on the LARC simplex frequency, 147.54 MHz. Information will be available via those frequencies or 147.105 repeater. An attractive 8x10 certificate will be available for an SASE and QSL to LARC, P.O. Box 1436, Laurel, MD 20707-0951. Listen for us and join the fun! KA3MFM promises to go water-ski-mobile with a special QSL card for the first 20 contacts he makes - provided his dad lends him his HT.

Field Day will probably just be getting started as this hits the streets so I don't have anything constructive to say at this time. Next month I'll let you know how LARC's weekend went, along with a tentative score.



Frank Treadwell - K3LDE  
Acting as NCS part of the day

Emmett - N3BOR



# Vienna Wireless Society

25 Years of Public Service  
1963-1988



**Meetings:** 2nd and 4th Fridays of each month, 7:30 p.m.  
Vienna Community Center, 120 Cherry Street, Vienna, VA  
**Repeater:** K4HTA/R  
**Nets:** Every Thursday at 7:30 p.m. on 146.085 in and 146.685 out.  
Alternate simplex frequency is 147.51  
10 Meter, 28.400 MHz 9:00 p.m. every night of the week except  
meeting nights.  
**Information:** Bill Mills, KC5PF/4 (703) 937-4090 (Home), (703) 359-0141 (Work)  
**Training Classes:** Dave Guffy, NY4V (703) 385-6608  
**Mailing Address:** P.O. Box 418, Vienna, VA 22180

---

## ENGINEERING AND OPERATIONAL SUPPORT GROUP

The VWS Engineering and Operational Support Group (EOSG) has been activated under the capable leadership of Bill Moran - W4MIB. The group is organized to provide a technological capability to design, install and operate VWS Amateur Radio repeater stations. The EOSG also provides engineering support to the club membership for testing new and unique communications innovations. To celebrate the VWS's 25th year as a public service club, the EOSG will be publishing a journal of technical papers written by VWS members. The journal will cover various aspects of Amateur Radio from technical to historical.

## FALL RADIO CLASSES

Dave Guffey - NY4V, training coordinator, has scheduled the instructors for the VWS Fall Amateur Radio training classes to begin in September. The classes will be held at the Vienna Town Community Center. More details on the classes will be found in the August issue of Auto-Call.

Bill - KC5PF/4

---

## LIGHTNING PROTECTION

We seem to have been getting a little more than our share of thunderstorms in the last few weeks, and reports of damage to a couple of repeaters has made us think seriously about some extra protecting for our radio equipment. An article in the April "Ham Hum" (Omaha, Nebraska) suggests the use of Metal Oxide Varistors (MOVs) across the AC line AND from each side of the line to ground (or at least from the hot side to ground.) "MOVs act like a bidirectional zener diode and cut voltage spikes off at the knees, absorbing all the power above a certain voltage level... The three MOVs may not protect you from everything, but they are a good start toward lightning awareness and protection therefrom.

A good MOV for radio use is rated at 140VAC and is nearly an inch in diameter and about 1/8 inch thick. They are available from local electronic parts suppliers at a cost of about 50¢ each. This sounds like cheap insurance. The article mentions a ZNR K201 type and says that three MOVs is all you are buying in some fancy lightning protection plugs that sell for \$19.95. (From "Ham Hum," Omaha, NE)

# Department of State Amateur Radio Club

Meetings: First working Monday of each month at 1200 Noon.  
Main State Department Building, Room 3524, Washington, D.C.  
The Foreign Service Net: Every Sunday 1500-1530Z on 14.316  
1530-1600Z on 21.416 and 1600-1630 on 28.616  
Repeater: W3DOS/R 145.19, open access. Round Table, Thursday nights at 8:30 p.m.

---

**REMINDER:** The Department of State ARC and GW University ARC will give FCC exams - Novice through Extra - on Saturday, July 9. Registration begins at 9:00 a.m. Code test at 9:30 and written test begins at 10:30 a.m. The fee is \$4.55 (checks only) made payable to ARRL/VEC.

The location is the George Washington University, Tompkins Hall of Engineering, 2nd floor, Room 202. The address is 725 23rd Street NW (1 block South of the Foggy Bottom Metro station). Free parking on many local streets on Saturday. Talk-in on 145.19 MHz repeater. For additional information, contact Derrill Rohlfis - W3WOX at (301) 423-0179 (Home) or (202) 676-5914 (Office).

**CONGRATULATIONS** to Joel Rochow-N3FSH for up-grading to General. Joel, it was a pleasure having you join our Foreign Service Net on June 12.

**FOREIGN SERVICE NET.** A number of our overseas stations will be shutting down and returning to Washington. They are: Carl Renz - K4LYT, returning this Summer from the Philippines; Jim Walsh-KI4PR, operating as TA2/KI4PR from

Ankara, Turkey; Tom Warren - K3TW, operating as VU2TJW from New Delhi; Jules Beaudin, operating as 5Z4JL in Nairobi and Larry Eicher - 5N0WRE from Nigeria.

Jim Walsh has given us all a chance at working a TA. Many thanks, Jim. Tom Warren surprised us June 12 with his new call - VU2TJW. Note: Dex Anderson-W4KM advises us that the Soviets scooped us on Tom Warren's plans. Dex translates from the USSR "Soviet Patriot" newspaper - an article written by Boris Stephanov that says, "in June K3TN is shutting down his operation VU2TJW. He then plans an expedition to: 5H3, 9U5, 9X5, D68 and 7Q7."

Rare stations to be heard on the FSN include: Dave Heil - J52US, from Guinea Bissau and Bill Ellis - 3DA0CD from Swaziland.

Note: Tom Warren will be transferring to 5H3 and Larry Eicher will be transferring to SU, Egypt.

Jane - KG3R

---

## FOUNDATION MEETINGS

The Foundation for Amateur Radio meets the second Wednesday of each month. All trustees are urged to attend, visitors are always welcome.

Meetings usually alternate between Maryland and Virginia but for the Summer months all meetings will be held at the Columbia Union College, Science Building, in Takoma Park, Maryland. Talk-in on 147.18.

Membership in the Foundation is open to all Amateur Radio organizations in the greater Washington area. We are hoping to have more clubs join the Foundation. For further information phone (703) 820-3044 or write Corresponding Secretary Irene Akers - W3RXJ, 2443 St. Clair Drive, Temple Hills, MD 20748.



# Hit by the Radio Bug

By Barbara Lester, YF of VE3MB

Whatever affliction a fellow has got,  
The Radio Bug is the worst of the lot.  
It attracts different people in all walks of life,  
Can infect your best friend and be caught by your wife.

And those so afflicted are often called "Hams,"  
Which has nothing to do with pig, smoked or Spam'd.  
No pig worth his salt would behave as Hams do,  
And if you want proofs, I will tell you a few.

One sign of the onset of this dreaded disease:  
The patient can't speak but in Radioese,  
A gibberish of decibels, loads and converters,  
Closed loops, decay time, bifilar inverters.

Another sure clue that he has an attack,  
He hides in some room he insists is his "shack."  
And if you peek in, there's no one to be seen,  
He just talks to himself - and you know what that means!

The patient develops a chronic condition  
(A serious symptom of brain malnutrition),  
He craves little black boxes and long hours to play with them  
The smaller the boxes, the more he will pay for them.

And a Ham who seems normal to most folks he sees  
Will spend most of a day climbing up and down trees,  
With great coils of wire and other queer stuff,  
And no matter how high, it is not high enough.

So if one of these "Hams" you should happen to see,  
Draped over a chimney or way up a tree,  
Don't pass heedlessly by with a nod or a shrug,  
The poor Guy's just bit by the Radio Bug!

(From "The Canadian Amateur Radio Magazine,"  
November 1987, via the "Spark Gap Newsletter.")

Send an Auto-Call  
subscription to your  
friends as a gift.  
For \$6.00 we will  
enter the subscrip-  
tion and mail a nice  
5x8 certificate as  
you instruct.

<b>Auto-call</b>	
<b>Gift Certificate</b>	
One year subscription to Auto-Call	
From _____	
To _____	CALL _____
ADDRESS _____	
CITY _____	STATE _____ ZIP _____

We will also be glad  
to send a sample  
copy to prospective  
subscribers and/or  
advertisers. Send  
us the names and  
addresses. Help us  
promote Auto-Call.

# QCWA National Convention, 1988



JOIN YOUR FELLOW MEMBERS AT THE  
1988 INTERNATIONAL QCWA CONVENTION  
IN THE GREATER WASHINGTON, D C AREA, SEPTEMBER 23-25

A TRULY GREAT PLACE TO VISIT IN THE AUTUMN!

The 1988 QCWA Convention is to be hosted by the Vic Clark Chapter #91. The Hotel is in the Virginia Suburb of McLean. Transportation from Dulles and Washington National Airports is via "Washington Flyer" van or private taxi. There are scores of tours to interesting places available as well as many historical spots to visit. Cruise on the Potomac or visit any of ten Smithsonian Museums. There is too much to list. Write: The International Visitor Information

Service, 733 15th Street, NW, Suite 300, Washington, DC 20005 for their brochure which gives lots of general information. Then you may wish to follow up by inquiring about specific tours, landmarks, historical sites, etc. On the form below, please indicate if you would be interested in a special tour of the NASA Goddard Space Center immediately before or after the convention (Wednesday, September 21 or Sunday, September 25).

REGISTRATION FORM -- CUT ALONG DOTTED LINES PLEASE

Name	Call	XYL First Name
Address		
No. & Street	City	State Zip
QCWA Member	\$ 7.00	Amount
Member & XYL	\$ 8.00 for both	Amount
Additional Guests	\$ 4.00 each	How Many? Amount
Saturday buffet breakfast	\$ 12.00 each	How Many? Amount
Saturday Evening Banquet	\$ 22.00 each	How Many? Amount
(Tax & Tips included in above prices)		Total Amount Enclosed

Possible NASA Tour:

Wed Sun  
Not Interested

Make check payable to Vic Clark Chapter, QCWA, mail this form and check to  
James M. Wilcox, K4JAP, 3442 Surrey Ln, Falls Church, VA 22042

Pick up your function tickets at the Registration Desk. Mailed only upon request with SASE

QCWA Convention Coordinator  
Wesley Randles, W4COW

1988 QCWA Convention Chairman  
Jack Kelleher, W4ZC

Convention Co-Chairman  
Elmer Jones, K4EUX

Convention Secretary  
James Wilcox, K4JAP  
3442 Surrey Ln, Falls Church, VA 22042

Convention Treasurer  
Joe Btsfpstj

Technical Program Chairman  
Stuart Meyer, W2GHK

The Convention site, the McLean Hilton, offers rooms, single or double occupancy for \$59.00 plus taxes, from September 21 - 25, 1988. If you are interested in the more expensive "Towers" accommodations, inquire about rates, etc., of the Hotel via phone or letter. Cut out the hotel registration form at the right. Be sure to get it to the hotel by not later than September 2. Also, at least one days room rent (check or credit card) must accompany the registration form.

MAIL TO:

The McLean Hilton (Reservations)  
7920 Jones Branch Drive  
McLean, VA 22102

Be sure to mention "QCWA Convention" in any inquiry

Hotel Phone is 703 847 5000

Hotel will send acknowledgement and a map

Page 6, Volume 37, No. 1

## ROOM RESERVATION CARD

Name			
Company Name			
Address	Telephone		
City	State	Zip Code	
Arrival Date	Time		
Departure Date	Time		
Credit Card #	Expiration:		
<input type="checkbox"/> Amex <input type="checkbox"/> Visa/MasterCard <input type="checkbox"/> Diners/Carte Blanche			

Rooms will be held until 6PM unless guaranteed with an accepted credit card. Check-in time is 2PM. Check-out time is 12NOON. Please circle accommodation requested.

QUARTER CENTURY WIRELESS ASSN.  
September 21 - 25, 1988

Please check desired room type:  
Single-\$59 Double-\$59

CUT-OFF DATE: September 2, 1988

If a range of rates is offered, and rate requested is not available, the next available rate will be assigned. Room charges are subject to Virginia State and Fairfax County taxes (currently 6.5%).

Reservation requests should be received two weeks prior to arrival date to insure availability.

The *Towers* is a private floor consisting of distinctive guest rooms and suites, featuring private lounge, concierge staff, and numerous special amenities.

The *Towers*  
Single: Double: Suites:



## NATIONAL CAPITAL AREA EMERGENCY AND TRAFFIC NETS

### Daily:

1300 Virginia Traffic Net: 7.26 SSB  
1800 Maryland Emergency Phone Net: 3.920 SSB  
1800 Virginia Sideband Net: 3.947 SSB  
1830 Virginia Slow Net: 3.68 CW  
1900 Virginia Net (early): 3.68 CW  
1900 MD-DC Net: 3.643 CW  
1915 Shenandoah Valley Emergency Net: 146.22/.82 FM  
2100 Vienna Wireless Society Pow-Wow Net: 28.4 SSB  
2130 MD Slow Net: 3.717 CW  
2200 MD-DC Net: 3.643 CW  
2200 Virginia Net (late): 3.68 CW  
2215 Virginia Late Net: 3.947 SSB

### Weekends & Holidays:

4/1-11/15 1100/1500: Chesapeake Bay Weather & Traffic Net: 147.705/.105 FM

### Sundays:

0900 Sunday Morning Coffee Net: 50.4 AM  
1900 Maryland 6 Meter Free State SSB Net: 50.125  
1900 Washington Co. 2-Meter Net: 146.94/.34 FM  
2100 Md-DC-NVa Regional EC Net: 146.91/.31 FM

### Mondays:

2000 Woodbridge Wireless Net: 147.84/.24 FM  
2030 Maryland Mobileers Net: 146.805/205

### Tuesdays:

1930 Arlington ARES Net: 146.58 FM  
2000 Mt. Vernon ARES Net: 146.055/.655  
2000 Montgomery Co. RACES/ARES Net: 146.46 FM

### Wednesdays:

2145 (Third Weds. of each month) Virginia Section ARES Appointees Net:  
3947 KHz LSB

### Thursdays:

1900 Four State Net: 147.09/.69 FM  
1930 Vienna Wireless Society Emergency Net: 146.085/.685 FM  
2000 Alexandria Radio Club Net: 147.915/.315 FM  
2000 Ole Virginia Hams Net: 146.37/.97 FM  
2100 Prince Georges Amateur Radio Emergency Service Net: 147.75/.15 FM  
2100 Vienna Wireless Society Traffic Net: 28.010 CW

### Saturdays:

1900 MCNRC Net: 52.25/53.25 and 144.95 FM

### Emergency, only-as required:

Vienna Emergency Net A (VEN/A): 3910 KHz (7260 alternate) B  
VEN/B: 3947 KHz (7240 alternate) B  
VEN/E: 3680 KHz (7050 alternate) CW

Note: All times are local (EST/EDT) unless otherwise specified.

NATIONAL CAPITAL AREA AMATEUR RADIO EMERGENCY SERVICE:

Va. Section EC: Earl Bishop, N4EXQ, (804)270-7564

National Capitol District EC: Harry Jones, N4CWP (703)521-4624

Fairfax Co. EC: Joe Peters, WB4WZZ (703)241-0078

Vienna Asst. EC: Jeff Wilkes, W4NFA  
& editor of 9809 Meadow Dale Ct.  
Public Service Vienna, Va. 22180  
Report: (703)281-4249

Mt. Vernon Asst. EC: Steve Schneider, WB4EEA (703)683-6570

Alexandria EC: Chuck Rexroad, N4HCP (703)971-0348

Arlington Co. EC: Craig Church, N4EFJ (703)979-8325

Prince William Co. EC: Harry Vorhauer, W4PVA (703)368-6050

Loudoun Co. EC: Bill Roemer, K3CUU (703)395-4905

Virginia District #1 DEC: Walt Quitter, NC4B (703)869-5241

Frederick Co. EC: Steve Czaikowski, WB4ZTR (703)869-3674

Warren Co. EC: Tom Strickler, K4JNA (703)635-3035

.....

Maryland-DC SEC: Al Taylor, KN3U (301)251-9464

Maryland-DC ASEC: Ross Merlin, WA2WDT (301)983-2842

Md. State RACES Officer: AL Nollmeyer W3YVQ (301)352-9073

Dist. of Columbia EC: Ken Williams, N3AQG (202)363-4234

Military District of Washington: Frank Hartnett, KA8PUU (703)642-5516

Allegany County EC: Gay Rembold, W3DFW (301)724-0674

Anne Arundel Co. EC: VACANT

Baltimore City/Co. EC: Cam Whetstone, WA3YOH (301)486-2609

Calvert Co. EC: Woody Schwartz, W3ZNW (301)535-1281

Caroline Co. EC: VACANT

Carroll Co. EC: John Culleton, KC3FK (301)795-1159

Cecil Co. EC: Bill Doss, N3AJJ (301)287-5897

Charles Co. EC: VACANT

Dorchester Co. EC: VACANT

Frederick Co. EC: Rick Ogden, N3RO (301)845-2670

Garrett Co. EC: VACANT

Harford Co. EC: VACANT

Howard Co. EC: Mike Carr, WA1QAA (301)799-0403

Kent Co. EC: Jim Bortner, WA3UJE (301)778-0589

Montgomery Co. EC: Hank Black, N3ESR (301)340-8595

N. Prince Georges Co. EC: Pud Reaver, W3DQI (301)498-6293

S. Prince Georges Co. EC: George Dewees, KA3KIF (301)292-1241

Queen Anne Co. EC: Walter Brink, W3WPY (301)643-2933

Somerset Co. EC: Howard Cann, KA3MRX (301)651-2845

St. Mary's Co. EC: VACANT

Talbot Co. EC: VACANT

Washington Co. EC: Pete Humphrey, W4FBA (301)739-5540

Wicomico Co. EC: VACANT

Worcester Co. EC: VACANT



**G AND G ELECTRONICS**  
OF MARYLAND

8524 DAKOTA DRIVE, GAITHERSBURG, MD.



**AIR-1**

**ART-1**



**AIR ROM**

All These Amateur Accessories  
formerly manufactured by

**MICROLOG CORP.**

are now produced by  
**G&G ELECTRONICS**

**HOURS: MON & TUES 11AM TO 9PM  
WED 11 TO 5 & BY APPOINTMENT**

**258-7373**

# SHACK SALES

*Noncommercial advertising of Amateur associated equipment is available to subscribers of AUTO-CALL at a rate of 3¢ per word -- with a \$1 minimum. Commercial vendors and nonsubscribers rate is 17¢ per word -- with a \$5.50 (1 inch) minimum. Special headings or special spacing (e.g., one item per line) may be used but such ads will be charged at the column inch rate.*

*Estate sales for Widow's Assistance handled by a FAR club will be published without cost.*

*Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be implied.*

*Copy must be received by the 8th of the month preceding publication.*

## WIDOW'S ASSISTANCE PROGRAM

Estate of Sam Newman - W3HN

- \* Kenwood TS530S transceiver with MC50 desk mike - \$500
  - \* HY-Gain 204BA, 4 element, 20 meter beam antenna with Beta Match (never used - still in sealed carton) - \$300
  - \* Heathkit HM102 SWR/Power meter - \$30
  - \* Appolo 700 X-4 dummy load/Wattmeter \$35
  - \* Heathkit Cantenna - \$10
  - \* Coax Radiometer SWR/Power meter with low frequency filter - \$15
  - \* Amprobe snap-around Volt/Ammeter \$30
  - \* Micronta VTVM - \$25
  - \* Triplet #630 VTVM - \$25
  - \* Lafayette crystal desk mike - \$10
  - \* Sears Power CB mike (2) @ \$5
  - \* Straight key - \$5; Bug - \$15
  - \* Coax switches (2) @ \$15
  - \* Speaker - 6" in cabinet (2) @ \$10
  - \* Ear phones - (2) @ \$5
  - \* Turner SSB+2 desk mike - \$10
- Phone Bob Henkel - NA3R at (301) 649-4494. (07)

FOR SALE: 20 METER BEAM for \$50.  
3 element, wide spaced, used but good condition, home brew, no traps, 50 ohm gamma match. Beam Handbook design. John - W3GFS, Laurel, MD.  
(301) 490-5286. (07)

FOR SALE: KLM 420/450 MHz Type 435-18C circular polarized antenna with CS-2 right/left hand remote switcher. 12DB gain, 22 degrees beamwidth, boom length 7' 4" - \$75. Bob - W4JNN  
Phone (703) 560-7161 Annandale, VA (07)

## WIDOW'S ASSISTANCE PROGRAM

Estate of John Wadden - W3MHH

- \* Transceiver: HW-101 w/pwr supply, speaker and mike.
- \* Transceiver: FTDX-560 with accessories.
- \* Two Meter Base Station: Yaesu FT-227R Memorizer.
- \* Three Element Yagi: Mosley CL-33M.
- \* Forty foot tower: Rohn 25G, including base and top section with mounting plate for rotator.
- \* Rotor: CDE HAM IV, with control cable and remote unit.

Note: Prefer to sell antenna and tower as package. Antenna and tower are approximately two years old, dismantled and ready to move. All equipment in good working order. Please call Mark Wadden on (301) 595-5784 Evenings. (WA)

A NEW ON-LINE CALLSIGN DIRECTORY is now available from Buckmaster Publishing. HAMCALL provides access to the latest call directory listings via your computer and modem for only \$29.95 per year with unlimited use. For further information write Buckmaster Publishing, Mineral, VA 23117 (703) 894-5777 or 800-282-5626

## USED GEAR TO SELL?

Give us a call or write

K3UKW

Tony Musero

1609 S. Iseminger Street

Philadelphia, PA 19148

(215) 271-8898

WE

BUY \* TRADE \* SELL

USED GEAR



## SHACK SALES

### "RADIO'S FIRST TWO DECADES."

A fascinating and thoroughly entertaining book on how it all got started. Includes actual photographs. \$4.95 plus \$2 shipping. Cologne Press, P.O. Box 682, Cologne, NJ 08213. (C07)

FOR SALE: HF Antenna Tuner, Tokyo HY-Power Model HC-400L. In like-new condition. Call John - W4HU (703) 536-9537. (07)

FOR SALE: ICOM 2AT, 2 battery packs, charger, DC regulator pack, 30 watt linear amp., speaker mike, two mag mount antennas. Works fine. \$225. HEATH HW-101, MFJ antenna tuner, Astatic mike, Butternut vertical, works fine - \$225. Both packages - \$400. Inexpensive entrance to ham radio. Steve - N4PVR (703) 437-7312

WANTED: McElroy bugs, hand keys and Vibroplex zephyr bug or any old or unusual bug. Help appreciated in locating such. "Smiley" White-WB4EDB, POB 5150 Fredericksburg, VA 22405 Phone (703) 373-0996 (12)

WANTED: Port. Dig. Receiver with BFQ, such as Panasonic RF-2800. Will also consider Non-Dig. RF-2200, Sony ICF-5900W, Etc. Joel - N3FSH (201) 363-4118, NW Washington, DC

FOR SALE: HF Antenna Tuner, Tokyo HY-Power Model HC-400L. Like-new condition. Call John - W4HU (703) 536-9537. (07)

FOR SALE: Cushcraft Ringo Ranger ARX-2, two meter base station antenna. Assembled and installed for your testing. Two month old. Perfect condition. Warranty card and all papers included. Must sell for esthetic reasons. \$25 takes it. Peter (301) 493-4405, Bethesda, MD. (07)

Need Antenna or tower work done? Call L. Chertok - W3GRF. (301) 297-4888. (C12)

WORLD RADIO, Amateur Radio's monthly newspaper can be delivered to your doorstep for only \$12 per year (\$22 overseas). Get the latest on how your fellow amateurs use their hobby to help other. Regular features are Aerials, Bob's Corner, Contest & Hamfest announcements, Digital Bus, DX World, MARS, Mobile, FCC Highlights, New Products, Propagation, QCWA, QRP, Six Shots!, Station Appearance, Traffic, VE Exams, 10-10 International News. Send your subscription to WORLD-RADIO, 1779 Tribute Road, Ste. L, Sacramento, CA 95815. (S)

FOR SALE: Radio - Television Category 10 Meter Radio Transmitter, 180 Watt input. Motorola "Private Line" Compa-Station, with microphone and cables. Motorola Mod-C-71GJB-PH-52, Type CC-1006 Ser. D-30595. Ideal for repeater. Currently fitted with 27.45 khz xtals - \$75. Milt-W4AWL. Call (703) 281-5721 evenings. Vienna, Virginia (07)

FOR SALE: Heathkit SB-610 monitor scope - \$50. Drake antenna tuner Model MN2000, 2KW - \$175. All in perfect condition, with manuals. Call at Office (301) 484-5400 or Home: (301) 764-1447 Baltimore (07)

FOR SALE: Two 4-400-A Elmac tubes. \$12.00 each. Ray Peterson - K3TKK, (301) 742-6003. 712 Vermont Avenue, Salisbury, MD 21801 (07)

WANTED: 2 Meter HT, good condition. Cash or trade for EIMAC transmitter and receiver. Bob - N3FRT (202) 879-6774 daytime. (11)

VACUUM TUBES: 70,000 in stock. Reasonable prices. Quick turnaround. VACUUM TUBE STORAGE BOXES: White. Four sizes. For lists send business SASE to TYGER ELECTRONICS, Box 750, Clinton, Maryland 20735. Phone Bob at (301) 248-7302. (C12)



## SHACK SALES

### FOR SALE:

- \* Heath Linear SB220, with wider spaced capacitor - \$400.
  - \* DWAI Speech Processor 440, new in box - \$85
  - \* Heath HM11 reflected Power/SWR meter - \$20.
  - \* Werlatone Broadband Pwr/SWR meter, 27 to 450 MHz. 50 watts SSB capability - \$50.
  - \* Heath HD15 Phone Patch, New in box - \$40.
  - \* KLM 6-element 440 MHz Yagi - \$15.
  - \* Raytheon factory service manual for SBE 34 - \$20.
  - \* Cameras, Kodak 600 Telektralite, in box; Polaroid BW Big Swinger 3000; Hawkeye R4 Instramatic, in carry case. Leather camera bag with some filters - \$45.
- Larry - W3MSN, (301) 894-3977, Oxen Hill, MD. (X07)

### NORM'S ROTOR SERVICE

Rebuilt Rotors, Parts & Service  
Call Norm Jeweler - K3LYW  
677 Southlawn Lane  
Rockville, MD 20850  
(301) 340-0520  
(C12)

### ANTIQUE RADIO BUFFS!

Become a part of one of the country's fastest-growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For sample newsletter, write Joe Koester, 249 Spring Gap South, Laurel, Md 20707. (301) 725-4229. (S)

WANTED: GENERAL RADIO unit oscillator model 1218A or 1218B, 900 to 2,000 MHz, GR 1000-P6 diode modulator, GR 1000-P7 balanced modulator, type 874 pads, air line and insertion units. Charles Preston-K4LJH, 48 N. Ivandale St., Hamilton, VA 22068; phone evenings 6:00 - 9:00 p.m. (703) 338-4152 (07)

WANTED: Three good NE-40 Neon glow lamps. Jay Madigan, 10174 Yorktown Way, Great Falls, VA 22066 (07)

FOR SALE: Fifty foot windmill tower, Mosley TA33- 40K, HAM-M rotator. Make offer and remove. Call George Willingmyre - K3SZZ (301) 421-1752 (09)

FOR SALE: Butternut HF6V vertical antenna - \$50. Len Chertok - W3GRF (301) 297-4888 (07)

### CHESS ON AMATEUR RADIO

Members of Chess & Amateur Radio International play chess everywhere! You'll find them on CW, SSB, RTTY, Packet, OSCAR, computer BBS, etc. Find out more by writing CARI, 508 20th Street, Cloquet, MN 5720 (S)

AMATEUR RADIO NEWS SERVICE is an organization of editors and publishers of amateur radio newsletters and members engaged in public relations. Its purpose is to assist editors in any way possible. For information write to Lee Knirko, W9MOL, 833 Park Plaine, Park Ridge, IL 60068 (S)



Society

Of Wireless Pioneers

THE INTERNATIONAL ORGANIZATION  
OF PROFESSIONAL RADIO TELEGRAPHERS

WM J BROWN, SEC 365-2049

*Serio & Company, Chartered*  
*Certified Public Accountants*

7910 WOODMONT AVE., SUITE 1110, BETHESDA, MD 20814

JOHN T. NUTTMANN, CPA

(301) 652-5040



## ANSWERS TO QUESTIONS WE RECEIVE

Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. (We use an IBM AT clone and WordPerfect program, Hayes compatible modem - 300 or 1200 baud.) All hard copy is re-typed to preserve uniformity of style in the magazine.

For your benefit in determining spacing, type 80 (12 pitch) characters per line and 58 lines per page - including the space taken up by headings, photographs, etc. Either black-and-white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper. Any copy can be reduced or enlarged as desired.

Columns from Foundation member clubs are eagerly solicited and any items of general Amateur Radio interest are most welcome. The editor does reserve the right to edit or reject any portions of any copy submitted and to make minor changes to make copy fit available space.

### SHACK SALES

Shack Sales will NOT be accepted over the telephone. Remittance must accompany each ad. Full address must be provided for our reference but need not be published. Deadline for copy is the 8th of the month preceding the publication date.

Each ad must include the call sign or the full name of the advertiser. If the full address is not included in the ad, we prefer to indicate the city along with the telephone numbers so that readers will know whether a long-distance charge is involved. The entire telephone number - including city - counts as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number, or group of letters/numbers is counted as one word.

See additional information in next column. If you have other questions, phone Ethel - K4LMB at McLean, Virginia (703) 536-8469 - at any reasonable hour.

AUTO-CALL

## Auto-Call Advertising

### SHACK SALES

Noncommercial advertising of Amateur associated equipment is available to subscribers of Auto-Call at a rate of 3¢ per word -- with a \$1 minimum. Commercial vendors and nonsubscriber rate is 17¢ per word -- with a \$5.50 minimum.

Special headings or special spacing (e.g., one item per line) may be used but such ads will be charged at a column inch rate -- \$1 per inch for noncommercial, \$5.50 per inch for commercial vendors and nonsubscribers.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be implied.

### DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the Shack Sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

DISPLAY ADS are charged according to size and duration of run. Rates per issue:

Page	Col. inch	1 Year	6 Times	3 Times	1 Time
Full.....	18	\$75.00	\$90.00	\$100.00	\$105.00
1/2.....	9	55.00	65.00	71.00	75.00
1/3.....	6	40.00	46.00	51.00	54.00
1/4.....	4½	33.00	38.00	41.00	43.00
1/6.....	3	22.00	26.00	28.00	30.00
1/8.....	2¼	17.00	20.00	22.00	23.00
1/9.....	2	16.00	19.00	21.00	22.00
1/18.....	1	8.50	10.00	11.00	11.50

Based on camera-ready artwork.  
Extra charge for halftoning photos.

All copy must be received by the 8th of the month preceding publication.

July 1988





# JOIN ARRL



**BENEFITS FOR YOU: QST, QSL Bureau, Awards (DXCC, WAS, etc.), Low Cost Insurance, Operating Aids, Government Liaison and more—Much more! For You!**

USE THIS COUPON OR A FACSIMILE AND MAIL TODAY.

Atlantic Division Director  
Hugh Turnbull - W3ABC  
6903 Rhode Island Avenue  
College Park, MD 20740  
Phone: (301) 927-1797

Roanoke Division Director  
Gay E. Milius - W4UG  
1416 Rutland Drive  
Virginia Beach, VA 23454  
Phone: (804) 481-5095

## MEMBERSHIP APPLICATION

PRO/83

Name \_\_\_\_\_ Call \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ Prov./State \_\_\_\_\_ PC/Zip \_\_\_\_\_

\$25 in U.S./\$30 in Canada/\$35 elsewhere (U.S. funds)  
Licensed amateurs, age 17 or under or age 65 or over, upon submitting proof of age, may request the special dues rate of \$20 in the U.S. (\$25 in Canada, \$30 elsewhere, in U.S. funds)

For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.

VISA or Chargex No. \_\_\_\_\_ Expires \_\_\_\_\_

Master Card No. \_\_\_\_\_ Bank No. \_\_\_\_\_ Expires \_\_\_\_\_

The American Radio Relay League

225 Main St. Newington, CT. 06111 USA

Auto  
Call

AUTO-CALL MAGAZINE

P.O. Box 7612

Falls Church, VA 22046-1452

Please enter my NEW \_\_\_\_\_ RENEWAL \_\_\_\_\_ Subscription to Auto-Call

For 1 Year \_\_\_\_\_ 2 Years \_\_\_\_\_ 3 Years \_\_\_\_\_

(Subscription rate: \$6.00 per year)

(Sample copy of latest issue \$1.00)

NAME \_\_\_\_\_ CALL \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Make check payable to Foundation For Amateur Radio



# JULY 1988

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<div> <div> <div>1988</div> <div> <div>S</div> <div>M</div> <div>T</div> <div>W</div> <div>T</div> <div>F</div> <div>S</div> </div> </div> <div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> <div>9</div> <div>10</div> <div>11</div> <div>12</div> <div>13</div> <div>14</div> <div>15</div> <div>16</div> <div>17</div> <div>18</div> <div>19</div> <div>20</div> <div>21</div> <div>22</div> <div>23</div> <div>24</div> <div>25</div> <div>26</div> <div>27</div> <div>28</div> <div>29</div> <div>30</div> </div> </div>					1 Mobileers Shenandoah	2 Jackson's Mill Hamfest
3	4 INDEPENDENCE DAY	5 Antietam PG Wireless	6 BARC MARC	7 Anne Arundel	8 Alexandria SMARC Vienna	9 Atlanta HamFestival Exams U of Maryland GW U/DOS Harrisonburg, VA
10 MEPN Picnic	11 Dept of State	12 APL Frederick	13 Launsl (Inf) MADRAS Pentagon --FAR--	14 Mt Vernon No Virginia	15 Mobileers RCARA Shenandoah	16 Capital City Tri County Exams Sterling, VA Chesapeake, Md
17	18 Ole Va Hams	19 Antietam Arlington Woodbridge	20 BARC Goddard MARC	21 Anne Arundel	22 Alexandria Vienna	23 Exams Richmond, Va
24 BRAIS Hamfest  Exams Hamfest	25	26	27 Laurel MADRAS	28	29	30
31 Adventists	NOTES: NCDXA Net every Sunday, 8:30 147.420					

## AUTO-CALL

P.O. Box 7612  
Falls Church, VA 22046-1452

Nonprofit Organization  
U.S. Postage Paid  
Arlington, VA 22210  
Permit 757

89/04 02133 GIFT FM W4HU  
FRED LAUN K3ZO  
POB 31097  
TEMPLE HILLS MD 20748